

ensus
EF
ID
715
USA
5ax
87
87-A-8

1987 FILE

Census of Construction Industries

For Reference

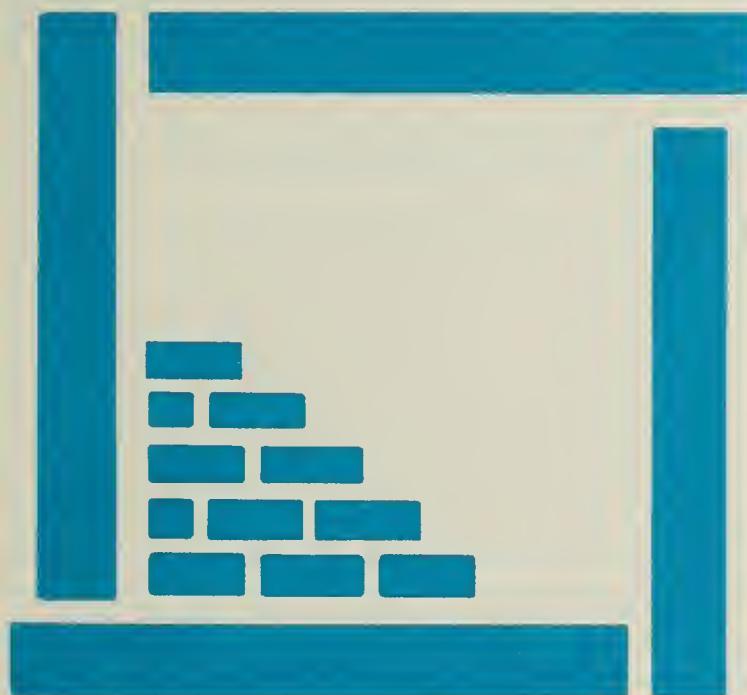
CC87-A-8

Not to be taken from this room

GEOGRAPHIC AREA SERIES

Mountain States

Arizona, Colorado, Idaho, Montana,
Nevada, New Mexico, Utah, Wyoming



U.S. Department of Commerce
BUREAU OF THE CENSUS

BUREAU OF THE CENSUS
LIBRARY

ACKNOWLEDGMENTS

Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. **Barry A. Rappaport**, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **A. William Visnansky**, Chief, Census Operations Branch, with primary staff assistance by **Juliana Van Berkum**, **Barbara J. Hadden**, **Edward R. Glover**, **Susan L. Hostetter**, **Shirley M. Baker**, and **Carolyn J. Stone**. Under the direction of **Jesse Pollock**, **Edward K. Ricketts** and **Dennis K. Duke** developed the sampling plans and variance and estimation specifications.

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative record processing, and quality control, along with the associated electronic computer programs, were developed in the Economic Surveys Division, **W. Joel Richardson**, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review

were performed by the staff of the Data Preparation Division, **Joseph S. Harris**, Chief.

Geographic coding procedures and associated computer programs were developed by the staff of the Geography Division, **Robert W. Marx**, Chief.

The computer processing systems were developed and coordinated in the Economic Programming Division, **Barry M. Cohen**, Chief, and **H. Ray Dennis**, Assistant Chief. **Sarah W. Baumgardner**, Chief, Construction Census Branch, was responsible for the design and implementation of the computer systems. The computer programs were prepared under the supervision of **Barbara L. Lambert**, assisted by **Herbert Isham** of the Construction Statistics Division. **Linda M. Mersh** and **James Dallmann** assisted in establishing and maintaining the production control system.

Computer processing was performed in the Computer Services Division, **Marvin D. Raines**, Chief.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Bernadette J. Beasley** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call (301) 763-7546.

1987

Census of

Construction Industries

CC87-A-8

GEOGRAPHIC AREA SERIES

Mountain States

Arizona, Colorado, Idaho, Montana,
Nevada, New Mexico, Utah, Wyoming

Issued July 1990



U.S. Department of Commerce
Robert A. Mosbacher, Secretary
Thomas J. Murrin, Deputy Secretary
Michael R. Darby, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Barbara Everitt Bryant, Director



BUREAU OF THE CENSUS

Barbara Everitt Bryant, Director
C. L. Kincannon, Deputy Director

Charles A. Waite, Associate Director for
Economic Programs

Roger H. Bugenhagen, Assistant Director for
Economic and Agriculture Censuses

Thomas L. Mesenbourg, Chief,
Economic Census Staff

CONSTRUCTION STATISTICS DIVISION

Leonora M. Gross, Chief

Library of Congress Cataloging-in-Publication Data

Census of construction industries (1987). Geographic area series.

1987 census of construction industries. Geographic area series.

"CC87-A-1—CC87-A-10."

"Issued April—June 1990."

Contents: [1] New England states — [2] Middle atlantic states — [3] East north central states — [etc.]

1. Construction industry—United States—Statistics.

I. United States. Bureau of the Census.

HD9715.U52C46 1990 338.4'7624'093021 88-22146

For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

CONTENTS

Mountain States

	Page
Introduction	V
Users' Guide for Locating Statistics in This Report by Table Number	XII
Map—Regions and Census Divisions of the United States	XIII

STATES

Arizona	AZ-1
Colorado	CO-1
Idaho	ID-1
Montana	MT-1
Nevada	NV-1
New Mexico	NM-1
Utah	UT-1
Wyoming	WY-1

APPENDIXES

A. Explanation of Terms	A-1
B. Standard Industrial Classification Titles for Industry Groups and Industries	B-1
C. Regions, Census Divisions, and States	C-1
D. Metropolitan Statistical Areas	D-1

Publication Program	Inside back cover
---------------------	-------------------

INTRODUCTION

	Page
PURPOSE AND USES OF THE ECONOMIC CENSUSES.....	V
AUTHORITY AND SCOPE	V
AVAILABILITY OF THE DATA	V
WHAT'S NEW IN 1987	V
HISTORICAL INFORMATION	VI
AVAILABILITY OF MORE FREQUENT ECONOMIC DATA.....	VI
SOURCES FOR MORE INFORMATION	VI
CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION.....	VI
ESTABLISHMENT BASIS OF REPORTING.....	VII
SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES	VIII
CENSUS REPORT FORMS	X
DATA PROCESSING	X
GEOGRAPHIC CLASSIFICATION	X
DUPLICATION IN VALUE OF CONSTRUCTION WORK	X
SPECIAL TABULATIONS.....	X
COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA	XI
ABBREVIATIONS AND SYMBOLS	XI

PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the—

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan

areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Construction Reports* (building permits, housing starts, and value of new construction put in place), *Current Business-Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property

into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

- 1. Building construction by general contractors or by operative builders**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
- 2. Heavy construction general contractors**—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
- 3. Construction by other special trade contractors**—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C.; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data— Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_c = \frac{\sum x_i / p_i}{n_c}$$

$$i = 1$$

where: x'_c is the simple unbiased estimate of a characteristic for a publication cell.

x_i is the reported value of a characteristic for an individual establishment in the publication cell.

p_i is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics— Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts", referred to in the tables as "dollar value of business done", was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

*	Sampling error exceeds 40 percent.
**	Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
-	Represents zero.
†	Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
††	Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
(W)	Greater than zero but less than 1 percent.
(X)	Not applicable.
n.s.k.	Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By Industry	By employment size	By size class of the dollar value of business done	By type, class, ownership, kind of business, and location of construction ¹	By CMSA, PMSA, and MSA ²
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment.....	5					
End of year—total.....	3, 5	3	7	8		
End of year—buildings, machinery and equipment.....	5					
Depreciation charges during year—buildings, machinery and equipment.....	5					
Capital expenditures:						
Total capital expenditures	3, 5	3	7	8		12
New buildings—machinery and equipment	5					
Used buildings—machinery and equipment.....	5					
Communication services, payments for	4					
Employees:						
All employees—average number.....	3	3				
Construction workers—average number.....	3, 4, 10	3, 10				12
Other employees—average number	4					
Employer costs for fringe benefits—legally required and voluntary expenditures	4					
Establishments:						
Number in business at end of year	4					
Number in business during year:						
All.....	3, 4, 6, 10	1				
With payroll.....		1, 3, 10	7	2, 8		12
Without payroll.....		1		2		
Hours—construction workers:						
Total.....	3, 4, 10	3, 10	7	8		
Quarterly	4, 10	10				
Inventories	6					
Materials, components, supplies, and fuels—payments for	3, 4	3	7	8		12
Payroll:						
First quarter, all employees.....	4					
Annual:						
All employees.....	3, 4	3	7	8		
Construction workers	3, 4	3				
Other employees.....		4				
Power, fuels, and lubricants—payments for	4					
Proprietors and working partners:						
All establishments.....		1		2		
Establishments with payroll.....	4	1		2		
Establishments without payroll.....		1		2		
Ratios, industry	11	11				
Receipts:						
Dollar value of business done:						
All establishments		1		2		
Establishments with payroll.....	4	1	7	2, 8		
Establishments without payroll.....		1		2		
Value of construction work, total	3, 4, 6	3	7	8	4, 9,	12
For work subcontracted in from others.....	4					
Other business receipts	4					
Land receipts ³	4					
Net value of construction work.....	3, 4	3	7	8		12
Value added	3, 4	3	7	8		12
Rental payments:						
Total.....	3, 4	3	7	8		
For machinery and equipment		4				
For buildings.....		4				
Repairs to buildings and other structures.....	4					
Repairs to machinery and equipment	4					
Subcontract work to others, payments for	3, 4	3	7	8	12	

Note: Data for 1982 and earlier years are also available in some of these tables.

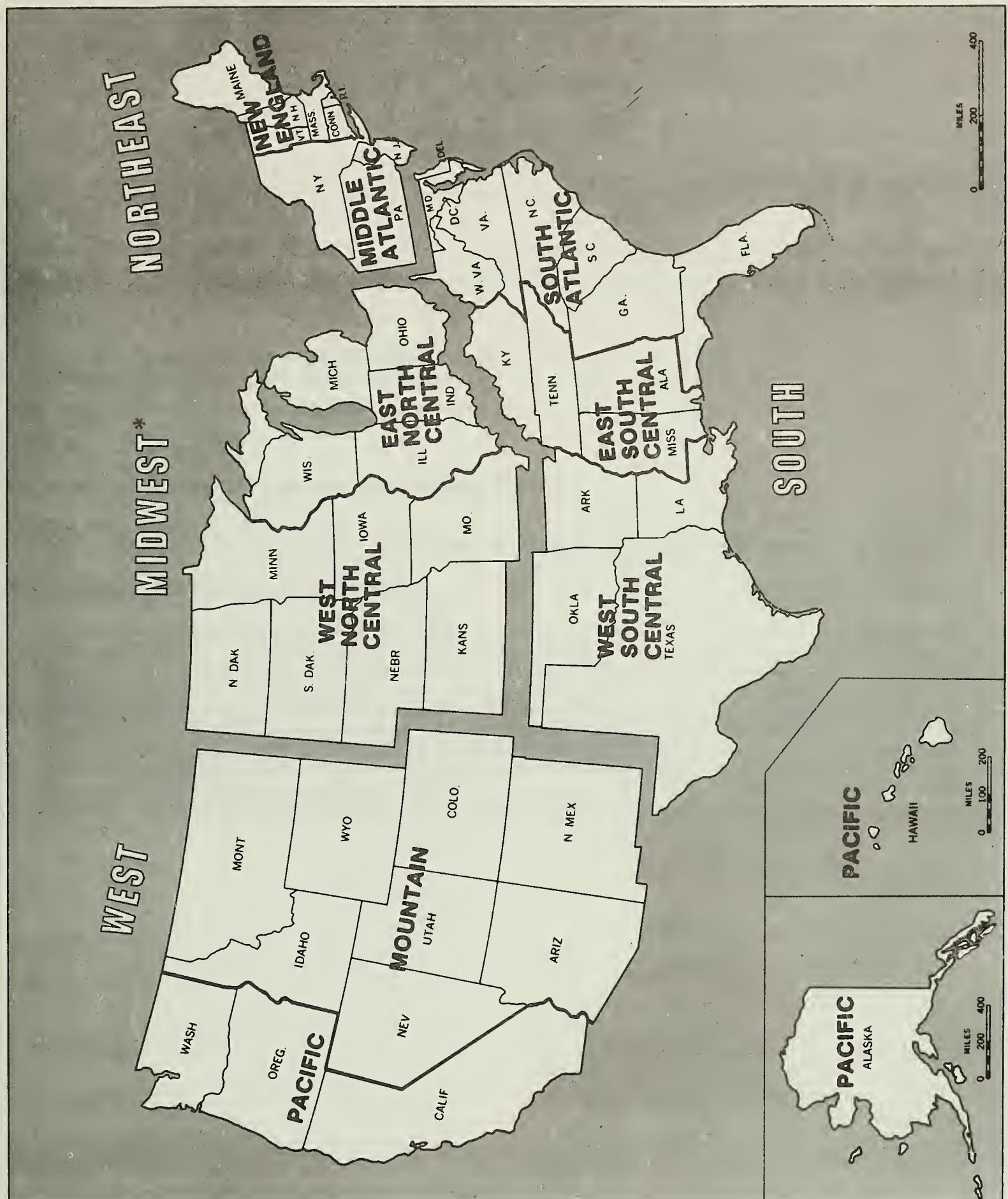
¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private or government owned.

²CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan Statistical area.

³Land receipts are shown separately for SIC's 1531 and 6552 only.

REGIONS AND CENSUS DIVISIONS OF THE UNITED STATES

MAP



U. S. DEPARTMENT OF COMMERCE
Bureau of the Census

* The Midwest Region was designated as the North Central Region until June 1984.

CONTENTS

Arizona

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings-----	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction-----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982-----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982-----	6
4. Detailed Statistics: 1987 and Earlier Census Years-----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986-----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982-----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987-----	12
11. Selected Industry Ratios in This State: 1987-----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	15

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Arizona. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 25,730 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$11.9 billion in total value of business done.

Most of the 25,730 construction establishments were small. Of the total, 16,827 were nonemployers, and over half of the employer establishments had less than 5 employees. The 4,326 construction establishments with 5 employees or more, while representing only 17 percent of all establishments, accounted for more than 83 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$10.8 billion on total dollar value of business done. Of this amount, \$10.0 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$3.2 billion, leaving net value of construction work of \$6.8 billion. In addition, these establishments paid out \$3.2 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$4.2 billion. (See Introduction and appendices for explanation of terms.)

There were 8,903 establishments with total employment averaging 97,854 during the year. Total payroll for 1987 was \$2.0 billion. Total hours worked by construction workers during the year were 124 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 16,827 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.2 billion. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**

(Percent)

1987

1982

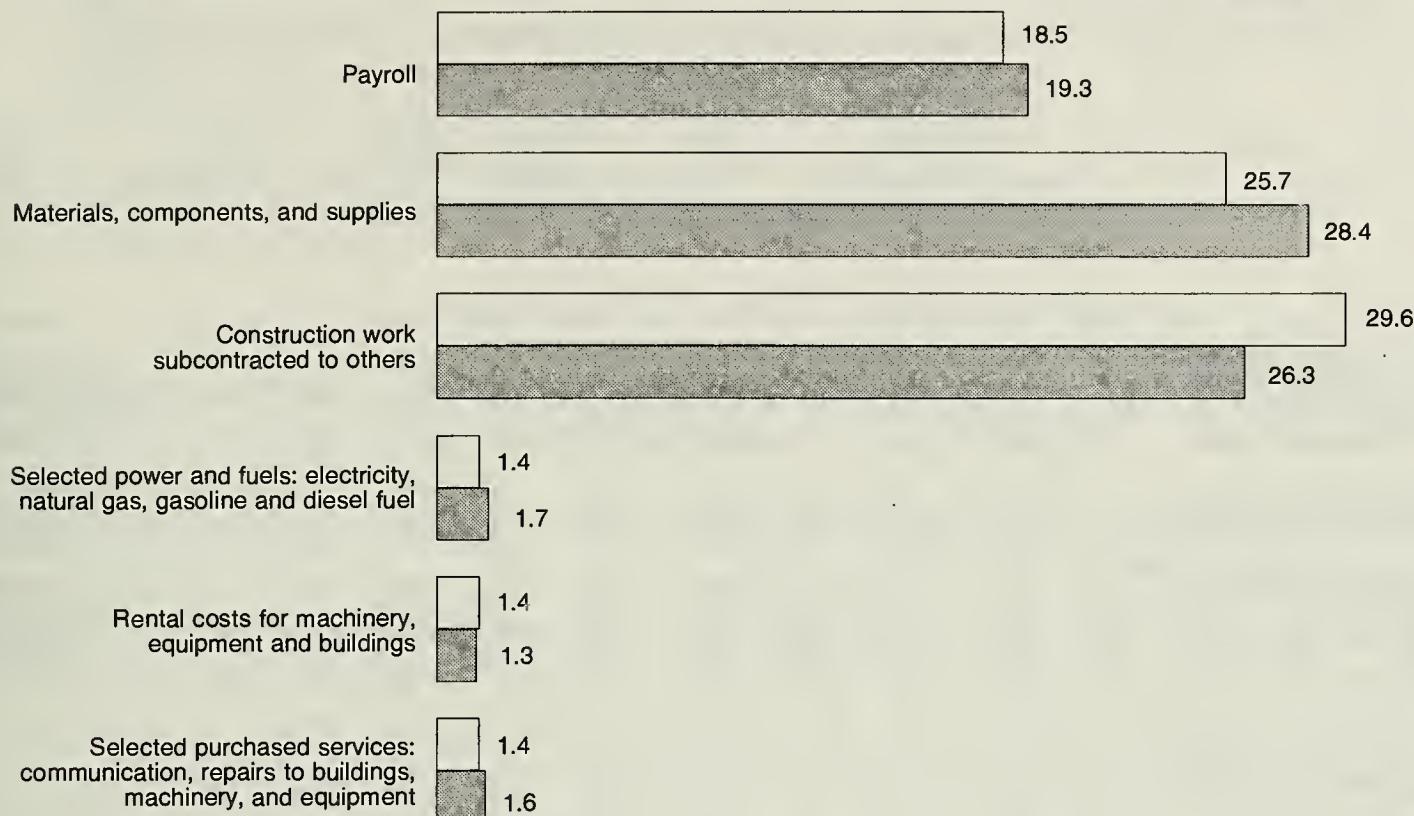


Figure 2. **Value of Construction Work by Type of Construction**

(Percent)

1987

1982

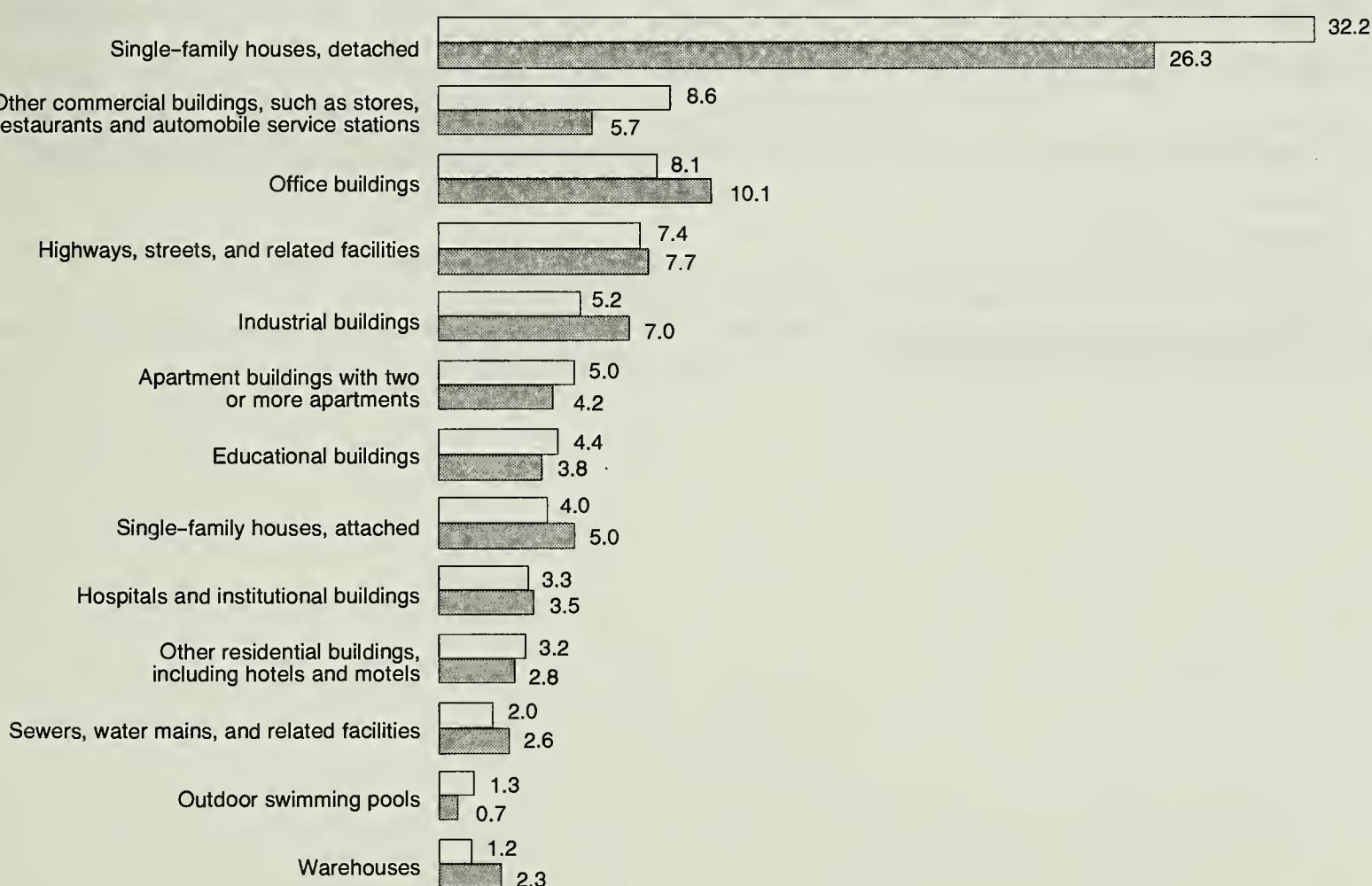


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done ¹	K	J	K
		A	B	C	D	E	F	G	H	I	J	K	J	K	
	1987														
	Construction industries and land subdividers and developers -----	25 730	18 460	97 854	11 918 255	16 827	16 480	1 154 733	8 903	1 980	97 854	10 763 522	1	1	
15, 16, 17	Construction industries -----	24 842	17 705	96 674	11 285 928	16 176	15 756	796 250	8 666	1 949	96 674	10 489 678	1	1	
15	Building construction—General contractors and operative builders -----	5 189	3 020	20 875	5 536 002	2 983	2 680	310 121	2 206	340	20 875	5 225 881	2	2	
16	Heavy construction other than building construction— contractors -----	743	288	13 037	1 412 576	249	242	19 646	494	46	13 037	1 392 930	2	2	
17	Special trade contractors -----	18 910	14 397	62 762	4 337 349	12 944	12 834	466 482	5 966	1 563	62 762	3 870 867	1	1	
1711	Plumbing, heating, and air-conditioning --	2 361	1 517	10 545	826 909	1 275	1 264	56 568	1 086	253	10 545	770 341	2	2	
1731	Electrical work-----	1 788	1 090	8 298	560 590	911	885	35 056	877	205	8 298	525 534	3	2	
6552	Land subdividers and developers, n.e.c. ² -----	875	(S)	(S)	(S)	651	724	358 483	224	(S)	(S)	(S)	(S)	(S)	(S)
	1982														
	Construction industries and land subdividers and developers -----	17 200	12 222	64 689	5 951 915	10 397	10 221	538 519	6 803	2 001	64 689	5 413 396	1	1	
15, 16, 17	Construction Industries -----	16 742	11 894	63 674	5 758 621	10 063	9 896	431 280	6 679	1 998	63 674	5 327 341	1	1	
15	Building construction—General contractors and operative builders -----	4 013	2 469	15 088	2 495 082	2 237	2 096	195 532	1 776	373	15 088	2 299 550	2	1	
16	Heavy construction other than building construction— contractors -----	749	474	8 001	945 070	431	425	16 233	318	49	8 001	928 837	2	1	
17	Special trade contractors -----	11 980	8 951	40 585	2 318 469	7 395	7 375	219 515	4 585	1 576	40 585	2 098 954	2	1	
1711	Plumbing, heating, and air-conditioning --	1 730	1 127	7 738	497 956	854	850	38 529	876	277	7 738	459 427	3	2	
1731	Electrical work-----	1 186	734	5 913	361 705	545	526	18 120	641	208	5 913	343 585	8	2	
6552	Land subdividers and developers, n.e.c. ² -----	452	327	1 008	193 288	334	325	107 239	118	2	1 008	86 049	4	4	

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll					Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²			
		A	B	C	D	E	F	G	H	I	J	K	J	K
1987														
The State	25 730	18 460	97 854	11 918 255	16 827	16 480	1 154 733	8 903	1 980	97 854	10 763 522	1	1	
\$10,000,000 or more	151	20	20 851	4 740 956	5	6	96 204	146	14	20 851	4 644 752	(W)	1	
\$5,000,000 to \$9,999,999	187	28	9 429	1 252 109	10	13	65 211	177	*15	9 429	1 186 898	1	4	
\$2,500,000 to \$4,999,999	480	66	14 739	1 655 432	29	42	99 091	451	*24	14 789	1 556 341	2	5	
\$1,000,000 to \$2,499,999	1 119	167	19 298	1 724 168	97	107	148 650	1 022	60	19 298	1 575 518	2	3	
\$500,000 to \$999,999	1 293	349	12 226	907 295	206	202	141 798	1 087	147	12 226	765 497	4	4	
\$250,000 to \$499,999	(S)	(S)	(S)	(S)	390	366	136 560	(S)	(S)	(S)	(S)	(S)	(S)	
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	1 177	1 126	182 260	(S)	(S)	(S)	(S)	(S)	(S)	
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	1 595	1 543	111 935	(S)	(S)	(S)	(S)	(S)	(S)	
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	2 393	2 332	85 210	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000	(S)	(S)	(S)	(S)	10 925	10 743	87 816	(S)	(S)	(S)	(S)	(S)	(S)	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 617	3 549	59 600	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 404	2 371	17 478	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 920	1 888	7 000	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	2 984	2 935	3 737	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982														
The State	17 200	12 222	64 689	5 951 915	10 397	10 221	538 519	6 803	2 001	64 689	5 413 396	1	1	
\$10,000,000 or more	82	6	11 013	(D)	2	2	(D)	80	4	11 013	2 047 203	(W)	(W)	
\$5,000,000 to \$9,999,999	95	16	5 670	2 752 224	6	10	36 209	89	6	5 670	627 781	(W)	(W)	
\$2,500,000 to \$4,999,999	187	6	6 748	643 082	5	4	17 940	182	2	6 748	625 142	(W)	1	
\$1,000,000 to \$2,499,999	579	80	12 187	877 135	36	46	58 537	543	34	12 187	818 598	2	3	
\$500,000 to \$999,999	822	176	9 396	594 282	88	85	61 840	734	91	9 396	532 442	7	4	
\$250,000 to \$499,999	1 295	444	8 196	453 813	186	170	63 969	1 109	274	8 196	389 844	5	4	
\$100,000 to \$249,999	2 278	1 205	7 083	357 773	597	563	91 055	1 681	642	7 083	266 718	6	4	
\$50,000 to \$99,999	1 994	1 366	2 456	140 698	911	904	63 304	1 083	462	2 456	77 394	7	6	
\$25,000 to \$49,999	1 954	1 567	1 105	68 857	1 387	1 359	48 375	567	208	1 105	20 482	9	7	
Less than \$25,000	7 912	7 355	833	64 050	7 179	7 078	56 259	733	277	833	7 791	7	7	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	2 394	2 342	37 817	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 795	1 780	12 107	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 770	1 760	5 115	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 220	1 196	1 220	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987								
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work ¹	
			All	Construction workers	All employees	Construction workers				
		A	B	C	D	E	F	G	H	
	Construction Industries and land subdividers and developers	8 903	97 854	75 357	1 986 031	1 365 645	123 627	9 973 925	6 792 209	
15, 16, 17	Construction industries:									
15	Building construction—General contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	1 136	5 418	4 043	86 245	56 893	6 521	597 031	368 915	
1522	Other residential buildings	81	1 278	803	29 994	17 870	1 518	381 213	104 099	
1531	Operative builders	355	6 115	2 510	160 658	48 828	3 691	1 900 939	825 168	
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	88	1 087	728	25 535	15 362	1 379	185 471	90 295	
1542	Nonresidential buildings, n.e.c.	546	6 977	4 847	175 879	111 630	8 043	1 642 403	642 637	
16	Heavy construction other than building construction—contractors:									
1611	Highway and street construction	190	5 632	4 538	142 692	107 064	7 990	745 440	604 542	
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	10	1 214	971	38 813	23 785	1 769	130 042	102 382	
1623	Water, sewer, and utility lines	107	2 812	2 340	68 860	47 521	4 210	232 527	211 850	
1629	Heavy construction, n.e.c.	187	3 379	2 694	75 723	57 602	4 664	240 070	196 421	
17	Special trade contractors:									
1711	Plumbing, heating, and air-conditioning	1 086	10 545	8 178	217 068	157 577	14 154	757 758	700 875	
1721	Painting and paper hanging	501	2 682	2 284	38 080	31 421	3 601	99 106	95 811	
1731	Electrical work	877	8 298	6 496	162 088	118 267	11 328	520 045	505 202	
174	Masonry, stonework, tile setting, and plastering:									
1741	Masonry, stone setting, and other stonework	368	3 921	3 520	64 279	53 717	5 341	191 993	186 529	
1742	Plastering, drywall, and insulation work	548	10 340	9 037	179 305	141 814	13 987	496 921	472 073	
1743	Terrazzo, tile, marble, and mosaic work	146	1 083	873	17 991	13 903	1 183	46 945	46 116	
175	Carpentry and floor work:									
1751	Carpentry	487	5 254	4 514	102 875	78 697	7 286	354 896	334 957	
1752	Floor laying and other floor work	109	685	519	14 049	10 506	742	63 918	59 889	
1761	Roofing, siding, and sheet metal work	389	4 596	3 782	73 254	53 154	4 991	261 650	254 428	
1771	Concrete work	498	6 984	5 992	133 434	105 982	9 950	449 490	422 955	
1781	Water well drilling	52	312	245	4 991	4 265	450	23 387	22 857	
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	95	1 237	1 020	27 851	21 228	1 799	84 388	78 840	
1793	Glass and glazing work	70	877	594	16 780	11 166	1 066	65 345	65 001	
1794	Excavation work	138	708	581	13 277	9 816	883	65 335	59 360	
1795	Wrecking and demolition work	41	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1796	Installing building equipment, n.e.c.	51	519	436	13 820	10 986	657	44 057	41 155	
1799	Special trade contractors, n.e.c.	510	4 470	3 462	73 390	52 245	6 054	255 929	228 797	
6552	Land subdividers and developers, n.e.c.	224	(S)	(S)	(S)	(S)	(S)	(S)	(S)	

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts ¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 213 191	2 916 720	3 181 716	152 075	145 696	1 188 307	64 689	5 002 050	2 213 619	1	1	2	15, 16, 17
												15
218 421 64 659	167 385 47 454	228 116 277 114	4 224 1 709	8 359 1 417	52 538 15 326	5 384 945	396 630 180 273	148 795 39 658	5 8	8 4	15 15	152 1521 1522
565 485	328 069	1 075 770	12 632	24 848	194 387	3 347	638 553	249 110	3	4	8	1531
55 587 465 505	39 177 283 672	95 175 999 766	2 072 10 931	1 398 7 477	11 970 54 003	827 4 585	127 550 807 915	41 197 209 459	7 3	10 3	39 16	154 1541 1542
												16
356 455	273 569	140 897	29 223	25 423	212 473	3 966	393 847	101 789	2	2	3	1611
48 277 138 571 141 678	(D) 76 711 70 464	27 660 20 677 43 648	7 556 11 552 7 683	(D) 4 285 5 467	(D) 61 084 49 233	139 1 745 2 151	14 988 127 587 224 162	7 216 64 390 230 991	(W) 5 3	(W) 5 4	(D) 7 21	162 1622 1623 1629
												17
386 705	326 752	56 883	12 680	9 104	89 082	7 738	451 715	230 035	2	2	10	1711
71 477	25 807	3 295	1 652	1 499	11 918	1 657	47 270	33 044	6	4	16	1721
288 185	222 506	14 842	8 655	8 542	51 018	5 913	340 408	173 422	3	2	10	1731
113 906 299 752 28 549	73 000 182 564 19 020	5 464 24 847 828	3 278 7 124 534	2 202 11 030 971	18 788 52 690 5 867	2 700 4 667 806	96 409 189 019 25 686	54 150 109 685 14 512	4 3 9	4 3 9	14 4 22	174 1741 1742 1743
174 374 25 256	167 450 34 941	19 938 4 029	4 627 855	3 493 655	34 651 4 511	3 438 637	132 198 32 679	63 042 14 985	4 8	3 10	13 15	1751 1752
148 528	(D)	7 221	2 723	5 774	30 468	2 731	137 335	70 879	4	4	5	1761
236 607	188 906	26 534	10 073	8 797	73 062	3 751	197 348	99 802	3	3	8	1771
12 659	10 715	530	*132	2 316	14 018	274	18 869	10 902	9	4	7	1781
58 860 30 053 50 980 (S) 24 848 156 018	25 747 37 346 9 119 (S) 2 902 101 957	5 547 344 5 975 (S) 2 940 27 132	1 877 1 187 2 940 (S) 611 533	1 157 5 398 2 904 (S) 611 269	13 260 445 31 189 (S) 2 838 5 589	1 132 1 782 1 782 (D) 445 37 156	65 487 24 921 133 517 (D) 133 517 194	41 290 11 921 91 200 (D) 11 921 15 088	7 10 14 (D) 10 15	5 12 18 (S) 12 15	16 29 30 (S) 7 13	1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	1 008	48 332	26 890	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	8 903	6 803	5 285	4 801	1	2	3	3
Proprietors and working partners	1 980	2 001	2 652	2 669	5	5	6	5
All employees**	97 854	64 689	52 868	55 887	1	1	1	2
Construction workers:								
March	72 052	48 488	37 098	43 231	1	2	2	2
May	76 217	50 722	41 253	44 506	1	2	2	2
August	79 828	51 002	45 621	47 835	1	2	2	2
November	73 329	49 513	45 631	44 999	1	2	2	2
Average	75 357	50 662	42 435	45 502	1	2	2	2
Other employees:								
March	22 416	13 838	9 773	9 730	1	1	2	2
May	22 654	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	22 734	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	22 197	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	22 500	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	28 399	18 260	(NA)	(NA)	1	2	(NA)	(NA)
April to June	31 593	19 776	(NA)	(NA)	1	2	(NA)	(NA)
July to September	33 253	19 915	(NA)	(NA)	1	2	(NA)	(NA)
October to December	30 380	19 327	(NA)	(NA)	1	2	(NA)	(NA)
Total hours worked	123 627	77 278	(NA)	(NA)	1	2	(NA)	(NA)
Payroll, all employees	1 986 031	1 045 778	648 253	568 334	1	1	1	1
Payroll, construction workers	1 365 645	758 760	493 901	458 248	1	1	1	1
Payroll, other employees	620 386	287 017	154 352	110 086	1	1	2	2
First quarter payroll, all employees	456 877	245 249	136 919	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	378 140	190 563	133 705	(NA)	1	1	1	(NA)
Legally required expenditures	273 437	141 042	80 329	(NA)	1	1	1	(NA)
Voluntary expenditures	104 703	49 521	53 377	(NA)	1	1	1	(NA)
Dollar value of business done	10 763 522	5 413 396	3 258 743	2 668 373	1	1	1	2
Value of construction work ¹	9 973 925	5 002 050	3 060 011	2 459 155	1	1	1	2
Value of construction work subcontracted in from others	2 922 742	1 432 878	917 602	609 717	2	1	(W)	(W)
Land receipts ²	451 894	145 588	(NA)	(NA)	3	2	(NA)	(NA)
Other business receipts	337 702	265 757	198 732	209 218	3	1	4	2
Net value of construction	6 792 209	3 580 366	2 157 553	1 691 420	1	1	1	2
Value added††	4 213 191	2 213 619	1 292 615	1 096 657	1	1	1	1
Selected costs	6 098 437	3 054 189	1 842 930	1 433 233	1	1	1	2
Materials, components, and supplies ³	2 767 021	1 539 050	885 882	665 498	1	1	1	2
Construction work subcontracted to others	3 181 716	1 421 684	902 458	767 735	2	1	2	3
Selected power, fuels, and lubricants	149 699	93 455	54 590	(NA)	1	2	2	(NA)
Electricity	28 844	13 197	12 545	(NA)	1	2	2	(NA)
Natural gas	4 004	2 261	5 124	(NA)	3	4	11	(NA)
Gasoline and diesel fuel	107 578	71 449	32 077	(NA)	1	2	1	(NA)
On highway use	82 919	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	24 659	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	9 271	6 547	4 846	(NA)	3	3	4	(NA)
Rental cost for machinery, equipment, and buildings	152 075	70 500	41 793	(NA)	2	3	1	(NA)
For machinery and equipment	96 618	49 276	35 516	31 077	2	4	1	2
For buildings	55 456	21 224	6 277	(NA)	2	3	4	(NA)
Selected purchased services	145 860	88 429	50 429	(NA)	1	2	2	(NA)
Communication services	37 418	20 681	11 947	(NA)	2	2	3	(NA)
Repairs to buildings and other structures	8 728	4 775	4 253	(NA)	4	4	14	(NA)
Repairs to machinery and equipment	99 714	62 972	34 229	(NA)	1	2	2	(NA)
Ownership of construction projects:								
Value of construction work	9 973 925	5 002 050	3 060 011	2 459 155	1	1	1	2
Government owned	1 909 345	867 848	554 000	464 100	2	3	1	2
Federal	446 310	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
State and local	1 463 035	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	8 064 580	4 134 201	2 506 011	1 995 055	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	1 106 356	854 964	2	2
Capital expenditures, other than land	145 696	81 716	2	3
New	105 511	53 901	3	4
Used	40 185	27 815	4	3
Retirements and disposition of depreciable assets	63 745	66 651	5	4
End-of-year gross book value of depreciable assets	1 188 307	870 029	2	2
Depreciation charges during year	145 521	121 996	2	4
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	214 360	200 970	5	3
Capital expenditures, other than land	37 434	13 080	6	3
New buildings and other structures	30 587	10 664	7	3
Used buildings and other structures	6 847	2 416	14	8
Retirements and disposition of depreciable assets	9 352	20 002	19	12
End-of-year gross book value of depreciable assets	242 442	194 048	5	2
Depreciation charges during year	25 923	18 963	6	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	891 995	653 994	2	2
Capital expenditures, other than land	108 262	68 636	2	3
New machinery and equipment, including automobiles and trucks	74 924	43 236	3	5
New automobiles and trucks, intended primarily for highway use	33 693	18 682	4	5
Used machinery and equipment, including automobiles and trucks	33 337	25 399	4	3
Retirements and disposition of depreciable assets	54 392	46 648	5	2
End-of-year gross book value of depreciable assets	945 865	675 981	2	2
Depreciation charges during year	119 598	103 033	2	4

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	8 903	1
Value of construction work	9 973 925	1
Establishments with inventories:		
Number	3 631	3
Value of construction work	5 039 439	2
Inventories ¹ :		
End of 1987, materials and supplies	119 735	4
End of 1986, materials and supplies	116 628	5
Establishments with no inventories:		
Number	4 077	3
Value of construction work	3 232 768	2
Establishments not reporting:		
Number	1 195	7
Value of construction work	1 701 718	3

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more	
1987											
Number of establishments	8 903	(S)	2 012	1 204	800	195	90	20	4	1	
All employees**	97 854	(S)	12 996	16 137	23 709	13 029	12 949	6 316	3 584	(D)	
Payroll, all employees	1 986 031	(S)	215 647	293 994	504 323	284 092	299 860	153 429	99 794	(D)	
Construction worker hours (thousands)	123 627	(S)	14 500	18 412	31 943	17 909	18 056	7 544	5 270	(D)	
Dollar value business done	10 763 522	(S)	1 187 681	1 484 636	2 700 856	1 436 384	1 490 324	1 100 088	443 066	(D)	
Value of construction work ¹	9 973 925	(S)	1 123 882	1 365 422	2 576 361	1 382 862	1 369 469	1 307 285	(D)		
Net value of construction work ¹	6 792 209	(S)	801 481	963 287	1 638 529	982 401	1 030 355	521 190	253 330	(D)	
Value added ¹¹	4 213 191	(S)	488 871	585 579	1 010 864	610 712	600 641	335 844	217 432	(D)	
Cost of materials, components, supplies, and fuels	2 916 720	(S)	345 219	413 749	670 465	398 965	473 916	359 745	(D)		
Cost of construction work subcontracted to others	3 181 716	(S)	322 400	402 135	937 832	400 461	339 114	532 765	(D)		
Rental cost for machinery, equipment, and buildings	152 075	(S)	13 522	20 157	38 948	19 955	27 764	16 315	4 190	(D)	
Capital expenditures, other than land	145 696	(S)	15 402	20 196	36 019	15 346	20 174	26 177	(D)		
End-of-year gross book value of depreciable assets	1 188 307	(S)	149 864	148 346	319 326	169 645	152 363	120 066	18 503	(D)	
1982											
All employees**	54 689	8 077	8 283	12 482	15 444	8 237	8 117	1 774	2 275	—	
Value of construction work ¹	5 002 050	455 715	505 243	837 066	1 128 014	778 047	835 713	462 252	(D)	—	
Value added ¹¹	2 213 619	205 007	215 843	374 193	505 334	323 823	343 666	245 752	(D)	—	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	4	4	2	1	(W)	(W)	(W)	(W)	(D)
Net value of construction work ¹	1	(S)	6	3	1	2	(W)	(W)	(W)	(W)	(D)
Capital expenditures, other than land	2	(S)	12	12	4	2	(W)	(W)	(W)	(W)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	8 903	(S)	(S)	(S)	(S)	(S)	(S)	1 087	1 022	451	177
All employees**	97 854	(S)	(S)	(S)	(S)	(S)	(S)	12 226	19 298	9 429	20 851
Payroll, all employees	1 986 031	(S)	(S)	(S)	(S)	(S)	(S)	208 707	375 607	321 770	230 930
Construction worker hours (thousands)	123 627	(S)	(S)	(S)	(S)	(S)	(S)	14 992	25 394	19 595	13 436
Dollar value of business done	10 763 522	(S)	(S)	(S)	(S)	(S)	(S)	765 497	1 575 518	1 556 341	1 186 898
Value of construction work ¹	9 973 925	(S)	(S)	(S)	(S)	(S)	(S)	738 468	1 515 530	1 463 902	1 126 716
Net value of construction work ¹	6 792 209	(S)	(S)	(S)	(S)	(S)	(S)	622 099	1 193 369	1 116 689	778 964
Value added ¹¹	4 213 191	(S)	(S)	(S)	(S)	(S)	(S)	381 350	718 312	652 894	483 544
Cost of materials, components, supplies, and fuels	2 916 720	(S)	(S)	(S)	(S)	(S)	(S)	255 013	512 518	509 943	320 503
Cost of construction work subcontracted to others	3 181 716	(S)	(S)	(S)	(S)	(S)	(S)	116 368	322 160	347 212	347 752
Rental cost for machinery, equipment, and buildings	152 075	(S)	(S)	(S)	(S)	(S)	(S)	13 388	25 928	22 695	17 002
Capital expenditures, other than land	145 696	(S)	(S)	(S)	(S)	(S)	(S)	9 962	24 485	22 554	14 701
End-of-year gross book value of depreciable assets	1 188 307	(S)	(S)	(S)	(S)	(S)	(S)	94 463	190 597	194 558	124 100
1982											
All employees**	64 689	833	1 105	2 456	7 083	8 196	9 396	12 187	6 748	5 670	11 013
Value of construction work ¹	5 002 050	7 707	19 895	75 761	260 874	373 910	521 356	788 226	596 047	593 381	1 764 892
Value added ¹¹	2 213 619	3 840	11 008	41 514	133 653	183 570	246 619	379 490	259 986	251 575	702 360
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	(S)	(S)	4	2	2	(W)
Net value of construction work ¹	1	(S)	(S)	(S)	(S)	(S)	(S)	4	3	4	(W)
Capital expenditures, other than land	2	(S)	(S)	(S)	(S)	(S)	(S)	11	8	9	3

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	9 973 925	7 790 710	1 215 602	572 412	1	1	2	3
Building construction	7 846 074	6 467 372	952 999	364 634	1	1	3	5
Single-family houses	3 610 881	3 254 189	228 649	128 042	2	2	6	5
Single-family houses, detached	3 209 770	2 882 678	212 238	114 853	2	2	7	6
Single-family houses, attached	401 111	371 511	16 411	13 189	5	6	7	15
Apartment buildings with two or more apartments	532 541	451 011	28 835	22 694	3	4	9	8
Other residential buildings, including hotels and motels	314 062	255 711	36 370	21 980	2	2	13	9
Hotels and motels	249 739	223 482	18 312	7 943	2	1	16	12
Other residential buildings, excluding hotels and motels	64 323	32 229	18 058	14 037	8	9	20	13
Office buildings	807 625	609 074	163 645	34 905	2	2	5	4
Other commercial buildings such as stores, restaurants, and automobile service stations	860 426	632 271	161 604	66 550	3	3	6	11
Industrial buildings and warehouses	643 837	490 410	118 512	34 913	4	5	4	6
Industrial buildings	521 790	393 894	100 792	27 103	5	7	4	7
Warehouses	122 047	96 516	17 720	7 810	5	5	16	10
Religious buildings	86 120	63 178	17 202	5 739	11	15	10	8
Educational buildings	435 485	332 187	88 473	14 824	5	5	12	5
Hospitals and institutional buildings	325 446	227 784	86 047	11 614	4	3	10	6
Farm buildings	7 550	5 584	898	1 066	18	23	18	19
Amusement, social, and recreational buildings	79 780	67 283	7 375	5 121	2	2	6	12
Other nonresidential buildings	111 247	78 684	15 383	17 179	7	5	32	26
Land development for buildings	61 070	(NA)	(NA)	(NA)	31	(NA)	(NA)	(NA)
Nonbuilding construction	1 793 689	1 323 337	262 602	207 749	1	2	2	4
Highways, streets, and related facilities	733 225	447 550	172 918	112 756	2	3	2	7
Outdoor swimming pools	130 562	111 470	8 110	10 981	8	8	9	15
Parking areas including private driveways	60 785	38 443	8 994	13 347	6	7	3	12
Fencing	73 691	65 420	4 068	4 201	14	16	21	13
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	62 524	53 037	4 781	4 705	15	16	6	32
Bridges, tunnels, and elevated highways	139 256	133 177	2 978	3 099	1	1	3	2
Conservation and development construction	42 883	37 792	3 348	1 742	7	7	21	11
Power and communication transmission lines, towers, and related facilities	69 825	60 575	5 081	4 167	4	4	1	21
Sewers, water mains, and related facilities	197 506	168 294	12 346	16 865	3	3	7	9
Sewers, sewer lines, and related facilities	91 810	78 077	8 098	5 634	5	4	8	22
Water mains and related facilities	105 696	90 217	4 248	11 231	3	3	5	6
Pipeline, other than sewer or water lines	36 511	24 468	6 361	5 682	2	(W)	11	(W)
Blast furnaces, petroleum refineries, and chemical complexes	22 562	(D)	(D)	6 238	2	(D)	(D)	5
Power plants	68 650	61 114	3 031	4 504	3	1	18	33
Sewage treatment and water treatment plants	28 122	19 773	*7 290	1 058	15	2	56	(W)
Water treatment plants	9 560	7 536	1 491	532	4	4	12	(W)
Oilfields	18 562	12 237	*5 799	526	22	1	70	(W)
Earthmoving, nonbuilding	*4 671	(D)	(D)	*2 605	48	(D)	(D)	64
Other nonbuilding construction	50 016	42 685	5 193	2 138	10	12	29	13
72 900	59 539	18 103	13 661	11	13	24	27	
Construction work, n.s.k.	334 131	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work¹	5 002 050	4 428 696	(NA)	573 354	1	1	(NA)	2
Building construction	3 679 223	3 323 837	(NA)	355 386	1	1	(NA)	2
Single-family houses	1 565 712	1 403 861	(NA)	161 851	1	1	(NA)	4
Single-family houses, detached	1 313 679	1 167 711	(NA)	145 967	2	2	(NA)	4
Single-family houses, attached	252 033	236 150	(NA)	15 883	3	4	(NA)	9
Apartment buildings with two or more apartments	208 188	192 838	(NA)	15 349	2	2	(NA)	7
Other residential buildings, including hotels and motels	138 507	129 998	(NA)	8 508	3	2	(NA)	24
Office buildings	505 987	465 760	(NA)	40 226	1	1	(NA)	4
Other commercial buildings such as stores, restaurants, and automobile service stations	284 953	237 304	(NA)	47 648	4	4	(NA)	7
Industrial buildings and warehouses	462 893	418 088	(NA)	44 805	2	2	(NA)	5
Industrial buildings	348 366	309 646	(NA)	38 720	2	2	(NA)	6
Warehouses	114 526	108 442	(NA)	6 084	4	3	(NA)	7
Religious buildings	42 467	38 284	(NA)	4 182	11	12	(NA)	15
Educational buildings	189 680	172 444	(NA)	17 235	2	2	(NA)	10
Hospitals and institutional buildings	174 358	165 160	(NA)	9 197	1	1	(NA)	5
Farm buildings	10 819	9 170	(NA)	1 648	21	19	(NA)	38
Amusement, social, and recreational buildings	52 414	50 410	(NA)	2 004	2	2	(NA)	11
Other nonresidential buildings	43 241	40 512	(NA)	2 728	6	6	(NA)	33
Nonbuilding construction	990 265	832 628	(NA)	157 636	1	1	(NA)	6
Highways, streets, and related facilities	383 962	299 972	(NA)	83 989	2	2	(NA)	4
Outdoor swimming pools	33 927	31 300	(NA)	2 627	7	7	(NA)	9
Parking areas including private driveways	10 313	9 819	(NA)	494	7	6	(NA)	13
Fencing	20 755	19 418	(NA)	1 337	7	5	(NA)	11
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	34 610	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Bridges, tunnels, and elevated highways	27 148	23 313	(NA)	3 834	2	3	(NA)	(W)
Dam and reservoir construction	13 831	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Conservation and development construction	42 222	37 455	(NA)	4 766	3	3	(NA)	16
Power and communication transmission lines, towers, and related facilities	38 355	28 029	(NA)	10 325	4	3	(NA)	10
Sewers, water mains, and related facilities	130 201	113 865	(NA)	16 336	3	4	(NA)	6
Pipeline, other than sewer or water lines	18 507	14 213	(NA)	4 294	5	7	(NA)	7
Heavy industrial facilities	172 393	167 828	(NA)	4 564	1	1	(NA)	4
Sewage treatment and water treatment plants	28 184	26 278	(NA)	1 906	6	7	(NA)	4
Other nonbuilding construction	35 849	22 035	(NA)	*13 810	36	14	(NA)	53
Construction work, n.s.k.	332 561	272 230	(NA)	60 330	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	8 903	75 357	123 627	72 052	28 399	76 217	31 593
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 136	4 043	6 521	3 780	1 439	4 040	1 644
1522	Other residential buildings -----	81	803	1 518	706	316	788	358
1531	Operative builders -----	355	2 510	3 691	2 573	946	2 683	961
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	88	728	1 379	723	330	759	340
1542	Nonresidential buildings, n.e.c. -----	546	4 847	8 043	4 722	1 870	4 727	1 942
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	190	4 538	7 990	4 195	1 706	4 662	2 031
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	10	971	1 769	1 112	489	1 056	482
1623	Water, sewer, and utility lines -----	107	2 340	4 210	2 103	949	2 092	893
1629	Heavy construction, n.e.c. -----	187	2 694	4 664	2 508	1 082	2 701	1 218
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	1 086	8 178	14 154	8 086	3 403	8 147	3 581
1721	Painting and paper hanging -----	501	2 284	3 601	2 018	836	2 192	899
1731	Electrical work-----	877	6 496	11 328	6 193	2 529	6 367	2 822
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework-----	368	3 520	5 341	3 262	1 206	3 612	1 404
1742	Plastering, drywall, and insulation work-----	548	9 037	13 987	8 516	3 289	9 474	3 719
1743	Terrazzo, tile, marble, and mosaic work -----	146	873	1 183	847	281	905	305
175	Carpentry and floor work:							
1751	Carpentry -----	487	4 514	7 286	4 501	1 634	4 885	2 049
1752	Floor laying and other floor work -----	109	519	742	446	157	429	161
1761	Roofing, siding, and sheet metal work-----	389	3 782	4 991	3 645	1 136	3 800	1 253
1771	Concrete work-----	498	5 992	9 950	5 796	2 181	6 057	2 633
1781	Water well drilling-----	52	245	450	225	101	245	116
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	95	1 020	1 799	884	373	884	435
1793	Glass and glazing work -----	70	594	1 086	556	243	542	238
1794	Excavation work -----	138	581	883	597	208	658	260
1795	Wrecking and demolition work -----	41	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	51	436	657	364	138	461	164
1799	Special trade contractors, n.e.c. -----	510	3 462	6 054	3 367	1 454	3 730	1 583
6552	Land subdividers and developers, n.e.c. --	224	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—												1987 SIC code	
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K				
H	I	J	K														
79 828	33 253	73 329	30 380	1	1	1	1	1	1	1	1	1	1	1	1	15, 16, 17	
																15	
4 199 875	1 722 433	4 153 843	1 714 408	6 9	8 16	6 8	8 13	6 10	8 19	7 13	8 22	6 8	9 15	152 1521 1522			
2 603	955	2 182	827	5	6	6	5	5	5	6	8	3	6	1531		154	
5 207	360 2 183	4 713 4 730	347 2 047	6 3	8 4	7 4	9 5	8 4	9 4	5 4	8 5	6 3	8 4	1541 1542		16	
4 937	2 290	4 359	1 961	2	3	2	2	3	3	3	3	2	3	1611			
935 2 598 3 150	437 1 236 1 350	781 2 566 2 419	359 1 130 1 012	(W) 6 2	(W) 8 5	(W) 5 3	(W) 9 6	(W) 7 3	(W) 7 5	(W) 6 3	(W) 11 5	(W) 5 2	(W) 8 5	162 1622 1623 1629		17	
8 397	3 609	8 083	3 560	2	3	2	3	2	3	2	4	3	4	1711			
2 488	992	2 453	872	6	7	7	10	6	8	6	8	10	9	1721			
6 924	3 005	6 504	2 969	3	3	3	3	3	3	3	3	3	4	1731		174	
3 677 9 439 889	1 435 3 653 325	3 529 8 718 852	1 295 3 325 271	4 3 10	5 3 13	4 3 7	5 4 13	4 3 9	5 4 14	4 3 10	6 3 15	5 4 14	7 4 13	1741 1742 1743			
4 601 645	1 910 235	4 073 556	1 691 187	4 8	5 7	4 10	5 9	3 10	5 8	5 7	6 7	5 8	7 10	175 1751 1752			
3 914	1 317	3 769	1 284	4	4	4	5	5	5	4	4	4	5	1761			
6 550	2 820	5 566	2 314	3	4	3	3	3	3	3	4	3	4	1771			
282	115	229	117	9	10	11	10	9	8	11	13	9	8	1781		179	
1 168 632 288 572 (S) 532 3 561	490 645 316 193 (S) 196 1 584	1 144 645 316 193 (S) (S) 387 1 432	499 316 11 14 (S) (S) 157 5	8 11 12 18 (S) (S) 13 7	11 12 12 14 (S) (S) 13 7	8 12 13 14 (S) (S) 12 9	13 12 17 14 (S) (S) 17 6	8 12 14 18 (S) (S) 12 8	11 11 14 14 (S) (S) 12 5	11 11 14 14 (S) (S) 19 8	8 9 14 19 (S) (S) 14 5	11 11 14 14 (S) (S) 19 8	8 9 14 15 (S) (S) 13 5	11 13 21 21 1794 1795 1796 1799	1791 1793 21 1794 1795 1796 1799		
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552			

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
17	Construction industries and land subdividers and developers	11.0	20.3	1 640.5	132.4	.199	.292	.319	.015
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.8	15.9	1 612.9	147.7	.144	.280	.382	.007
1522	Other residential buildings	15.8	23.5	1 890.4	474.7	.079	.124	.727	.004
1531	Operative builders	17.2	26.3	1 470.5	757.3	.085	.173	.566	.007
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	12.4	23.5	1 894.2	254.8	.138	.211	.513	.011
1542	Nonresidential buildings, n.e.c.	12.8	25.2	1 659.4	338.8	.107	.173	.609	.007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	29.6	25.3	1 760.7	164.3	.191	.367	.189	.039
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	121.4	32.0	1 821.8	133.9	.298	(D)	.213	.058
1623	Water, sewer, and utility lines	26.3	24.5	1 799.1	99.4	.296	.330	.089	.050
1629	Heavy construction, n.e.c.	18.1	22.4	1 731.3	89.1	.315	.294	.182	.032
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	9.7	20.6	1 730.7	92.7	.286	.431	.075	.017
1721	Painting and paper hanging	5.4	14.2	1 576.6	43.4	.384	.260	.033	.017
1731	Electrical work	9.5	19.5	1 743.8	80.1	.312	.428	.029	.017
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	10.7	16.4	1 517.3	54.5	.335	.380	.028	.017
1742	Plastering, drywall, and insulation work	18.9	17.3	1 547.7	55.0	.361	.367	.050	.014
1743	Terrazzo, tile, marble, and mosaic work	7.4	16.6	1 355.1	53.8	.383	.405	.018	.011
175	Carpentry and floor work:								
1751	Carpentry	10.8	19.6	1 614.1	78.6	.290	.472	.056	.013
1752	Floor laying and other floor work	6.3	20.5	1 429.7	123.2	.220	.547	.063	.013
1761	Roofing, siding, and sheet metal work	11.8	15.9	1 319.7	69.2	.280	(D)	.028	.010
1771	Concrete work	14.0	19.1	1 660.5	75.0	.297	.420	.059	.022
1781	Water well drilling	6.0	16.0	1 836.7	95.5	.213	.458	.023	.006
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	13.0	22.5	1 763.7	82.7	.330	.305	.066	.022
1793	Glass and glazing work	12.5	19.1	1 828.3	110.0	.257	.572	.005	.018
1794	Excavation work	5.1	18.8	1 519.8	112.5	.203	.140	.091	.045
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.	10.2	26.6	1 506.9	101.0	.314	(D)	.066	.012
1799	Special trade contractors, n.e.c.	8.8	16.4	1 748.7	73.9	.287	.398	.106	.016
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expendi- tures, other than land	Relative standard error of estimate (percent) for column—		
											B	E	
	PHOENIX, AZ MSA												
	Construction industries and land subdividers and developers -----	5 434	68 367	1 456 817	7 564 566	5 070 545	3 131 373	2 176 971	2 494 021	104 670	1	1	
15,16, 17	Construction industries:												
	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	559	3 144	53 663	353 676	206 506	120 418	94 739	147 170	4 736	7	9	
1522	Other residential buildings -----	47	712	20 601	313 253	79 411	54 376	30 863	233 842	1 258	11	4	
1531	Operative builders -----	237	4 260	122 100	1 567 117	713 432	483 191	264 656	853 685	19 391	4	4	
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	57	681	16 308	1 48 930	66 027	38 964	(D)	82 902	*1 187	7	13	
1542	Nonresidential buildings, n.e.c. -----	365	5 391	143 721	1 342 993	534 335	396 775	(D)	808 659	5 254	3	3	
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	126	3 582	91 156	509 310	412 211	224 570	195 830	97 099	15 919	3	3	
162	Heavy construction, except highway:												
1622	Bridge, tunnel, and elevated highway construction -----	7	734	22 962	69 589	(D)	29 450	(D)	(D)	(D)	(W)	(D)	
1623	Water, sewer, and utility lines -----	59	1 982	52 296	170 621	155 829	103 233	55 687	14 792	2 878	4	2	
1629	Heavy construction, n.e.c. -----	108	1 295	26 729	117 563	90 449	68 503	27 876	27 114	2 935	7	8	
17	Special trade contractors:												
1711	Plumbing, heating, and air- conditioning -----	634	7 237	160 280	536 801	495 689	273 864	229 215	41 113	5 386	3	3	
1721	Painting and paper hanging -----	297	1 743	25 635	64 711	62 396	44 971	17 914	2 314	926	8	6	
1731	Electrical work -----	550	6 168	126 057	387 517	377 539	211 145	169 642	9 978	6 447	3	2	
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	246	2 941	49 876	148 999	144 975	88 417	56 886	4 024	1 770	4	4	
1742	Plastering, drywall, and insulation work -----	341	7 842	143 079	401 402	379 788	238 730	149 431	21 614	9 669	3	3	
1743	Terrazzo, tile, marble, and mosaic work -----	91	813	14 104	36 320	35 867	22 099	14 733	453	560	12	11	
175	Carpentry and floor work:												
1751	Carpentry -----	303	3 836	81 051	284 471	270 589	138 386	137 245	13 883	2 789	4	3	
1752	Floor laying and other floorwork -----	70	450	10 199	49 060	45 681	18 640	27 058	3 379	536	9	12	
1761	Roofing, siding, and sheet metal work -----	236	3 274	55 139	202 678	196 732	112 682	84 927	5 946	5 122	4	4	
1771	Concrete work -----	315	5 053	100 140	339 448	319 627	176 588	144 713	19 821	6 453	3	3	
1781	Water well drilling -----	12	176	3 585	15 886	(D)	9 431	6 161	(D)	(D)	4	(D)	
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	62	930	20 950	62 567	57 653	42 813	20 482	4 913	882	7	5	
1793	Glass and glazing work -----	46	673	13 398	49 060	48 717	24 117	26 721	*342	291	11	14	
1794	Excavation work -----	78	396	7 838	29 126	27 386	22 112	5 453	1 740	2 165	22	22	
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1796	Installing building equipment, n.e.c. -----	33	465	12 552	40 643	37 743	22 428	(D)	2 900	238	16	16	
1799	Special trade contractors, n.e.c. -----	356	3 383	57 578	203 130	179 588	122 171	79 433	23 542	4 263	6	7	
6552	Land subdividers and developers, n.e.c. -----	161	983	22 964	114 335	55 147	38 610	22 700	59 188	1 234	6	23	
	TUCSON, AZ MSA												
	Construction industries and land subdividers and developers -----	1 668	17 970	339 974	1 581 184	1 091 434	689 927	474 080	489 750	23 180	1	2	
15,16, 17	Construction industries:												
	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses -----	219	815	12 118	93 772	61 235	39 170	26 917	32 537	1 080	13	19	
1522	Other residential buildings -----	15	457	7 601	59 634	18 956	7 416	13 647	40 679	(D)	13	16	
1531	Operative builders -----	64	1 312	30 490	274 326	91 699	68 659	(D)	182 628	3 341	3	7	
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses -----	25	314	7 421	26 484	15 931	(D)	5 653	10 554	(D)	15	17	
1542	Nonresidential buildings, n.e.c. -----	119	1 054	22 556	208 262	73 538	48 682	27 047	134 724	1 294	11	10	

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—		
											I	B	E
	TUCSON, AZ MSA—Con.												
	Construction Industries and land subdividers and developers—Con.												
15,16, 17 16	Construction Industries—Con.												
	Heavy construction other than building construction—contractors:												
1611	Highway and street construction -----	32	1 566	40 389	191 562	158 747	108 307	65 156	32 814	5 777	3	3	
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1622	Water, sewer, and utility lines -----	18	364	7 915	27 593	24 987	14 500	10 560	2 606	978	1	1	
1629	Heavy construction, n.e.c. -----	19	304	8 482	23 700	21 002	16 913	(D)	2 699	(D)	7	5	
17	Special trade contractors:												
1711	Plumbing, heating, and air- conditioning-----	182	2 045	36 036	134 337	123 053	63 817	61 468	11 284	1 755	4	4	
1721	Painting and paper hanging-----	120	663	9 854	26 948	26 234	21 287	(D)	714	470	7	6	
1731	Electrical work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework -----	65	716	11 114	30 872	29 497	18 488	11 058	1 375	233	10	9	
1742	Plastering, drywall, and insulation work -----	86	1 628	25 610	63 408	62 392	42 211	(D)	1 016	890	5	5	
1743	Terrazzo, tile, marble, and mosaic work -----	28	232	3 583	8 934	(D)	5 610	(D)	(D)	(D)	14	(D)	
175	Carpentry and floor work:												
1751	Carpentry-----	88	910	14 246	48 692	44 713	24 521	(D)	3 979	(D)	7	5	
1752	Floor laying and other floorwork-----	18	169	3 213	10 313	10 147	5 251	(D)	166	(D)	21	20	
1761	Roofing, siding, and sheet metal work -----	76	757	11 572	35 323	34 702	21 468	13 254	621	572	8	7	
1771	Concrete work -----	74	1 170	20 754	65 002	61 748	37 338	24 634	3 254	1 261	5	6	
1781	Water well drilling -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
179	Miscellaneous special trade contractors:												
1791	Structural steel erection -----	26	180	3 997	13 410	12 811	9 183	(D)	*599	213	34	21	
1793	Glass and glazing work -----	15	124	2 100	10 720	10 718	4 181	6 813	*2	*135	10	23	
1794	Excavation work -----	27	205	3 359	16 084	13 035	11 405	(D)	*3 049	*565	15	5	
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1796	Installing building equipment, n.e.c.-----	*11	42	1 141	(D)	(D)	1 956	904	(D)	32	35	(D)	
1799	Special trade contractors, n.e.c.-----	101	806	11 897	39 499	36 431	25 408	15 410	3 068	988	12	11	
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(D)	(D)	(S)	(D)	

CONTENTS

Colorado

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings-----	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction -----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982-----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982 -----	6
4. Detailed Statistics: 1987 and Earlier Census Years -----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986 -----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982 -----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982 -----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987 -----	12
11. Selected Industry Ratios in This State: 1987 -----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	15

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Colorado. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 34,989 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$9.8 billion in total value of business done.

Most of the 34,989 construction establishments were small. Of the total, 26,032 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,562 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 77 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$8.6 billion on total dollar value of business done. Of this amount, \$8.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.7 billion, leaving net value of construction work of \$5.6 billion. In addition, these establishments paid out \$2.6 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$3.5 billion. (See Introduction and appendices for explanation of terms.)

There were 8,957 establishments with total employment averaging 79,961 during the year. Total payroll for 1987 was \$1.6 billion. Total hours worked by construction workers during the year were 101 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 26,032 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.2 billion. Most of these establishments, about 75 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

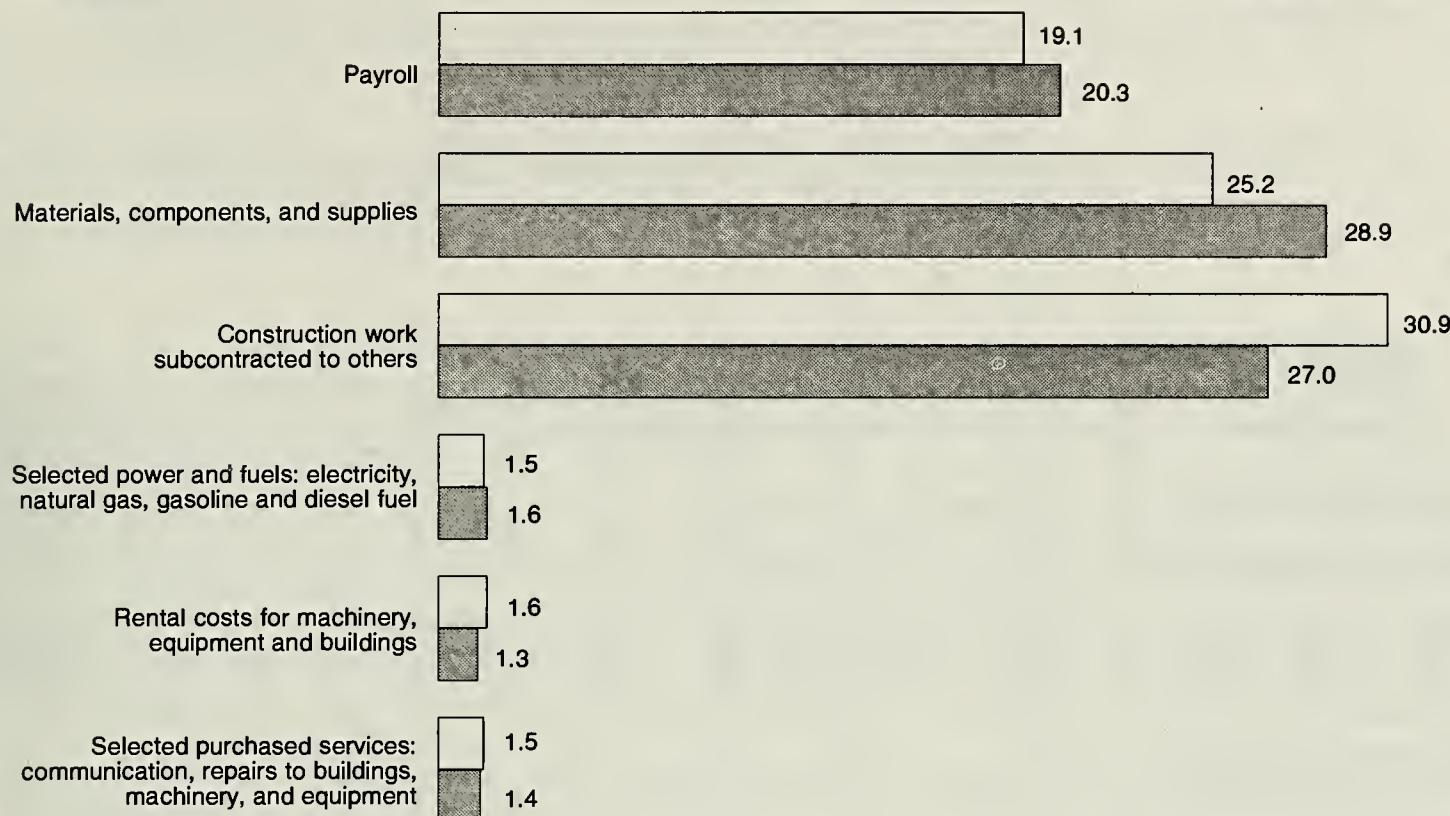


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

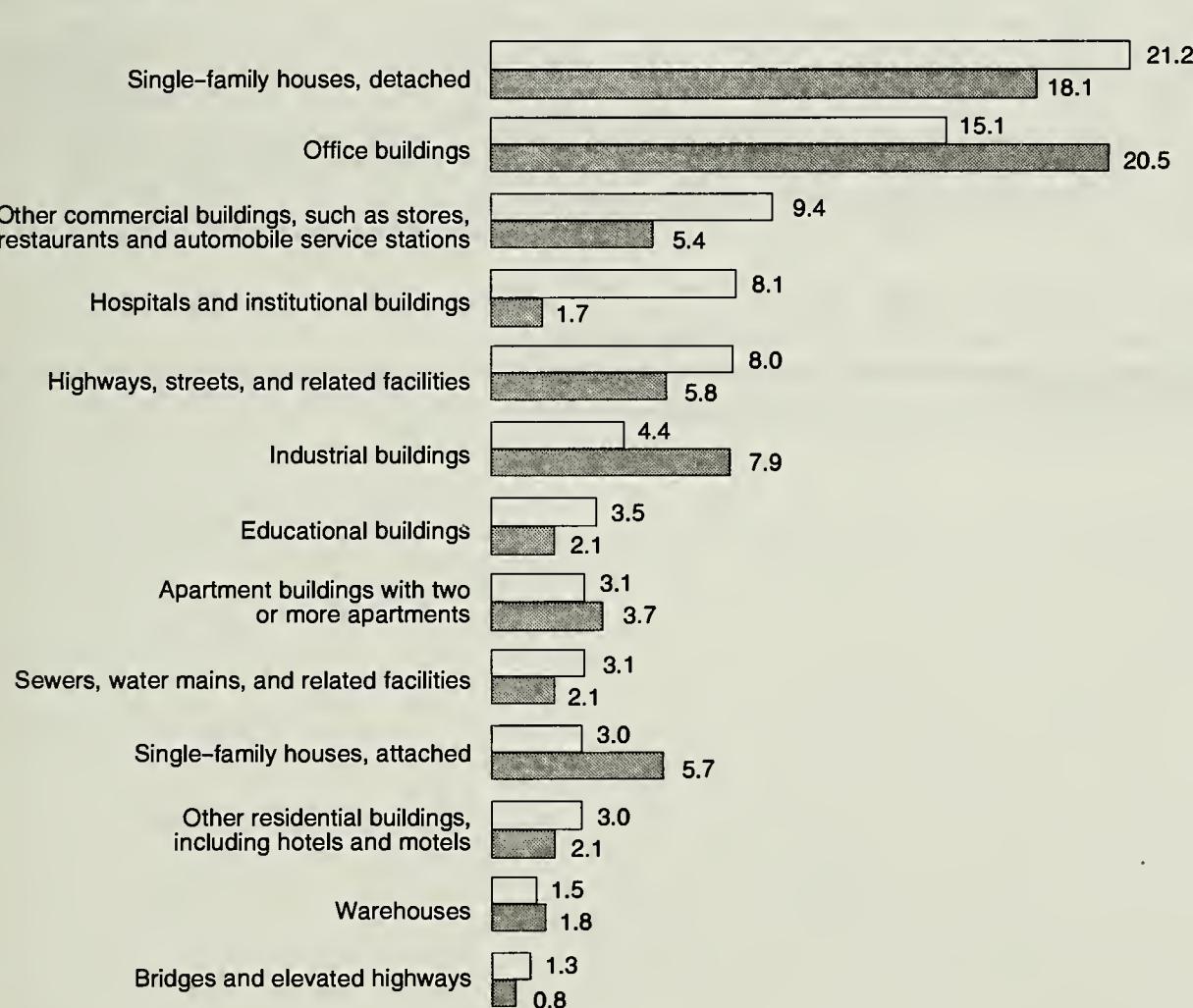


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers	34 989	27 719	79 961	9 810 596	26 032	25 454	1 224 130	8 957	2 265	79 961	8 586 466	1	1
15, 16, 17	Construction Industries	34 133	26 918	79 091	9 346 004	25 349	24 683	957 880	8 784	2 235	79 091	8 388 124	1	1
15	Building construction—General contractors and operative builders	7 575	5 316	19 581	4 491 964	5 316	4 842	413 442	2 259	474	19 581	4 078 522	2	2
16	Heavy construction other than building construction— contractors	1 106	582	15 293	1 588 961	433	406	23 819	673	176	15 293	1 565 142	2	1
17	Special trade contractors	25 452	21 020	44 217	3 265 080	19 600	19 435	520 620	5 852	1 585	44 217	2 744 460	1	1
1711	Plumbing, heating, and air-conditioning	2 667	1 722	10 225	700 122	1 437	1 401	55 369	1 230	321	10 225	644 753	2	2
1731	Electrical work	1 946	1 177	8 173	607 050	1 057	1 031	35 016	889	146	8 173	572 034	2	1
6552	Land subdividers and developers, n.e.c.²	844	792	857	464 582	683	771	266 250	161	21	857	198 332	7	7
	1982													
	Construction Industries and land subdividers and developers	30 986	24 900	93 279	9 474 653	21 533	21 558	998 290	9 453	3 342	93 279	8 476 363	1	1
15, 16, 17	Construction Industries	30 267	24 210	91 850	9 152 490	20 991	20 907	833 688	9 276	3 303	91 850	8 318 802	1	1
15	Building construction—General contractors and operative builders	8 105	6 059	24 736	4 075 507	5 427	5 305	342 738	2 678	754	24 736	3 732 769	2	1
16	Heavy construction other than building construction— contractors	1 222	805	15 669	1 655 199	701	691	31 205	521	114	15 669	1 623 994	1	1
17	Special trade contractors	20 940	17 346	51 445	3 421 784	14 863	14 911	459 745	6 077	2 435	51 445	2 962 039	1	1
1711	Plumbing, heating, and air-conditioning	2 191	1 427	9 633	768 830	1 048	1 051	47 173	1 143	376	9 633	721 657	2	2
1731	Electrical work	1 485	956	8 929	699 802	730	724	29 944	755	232	8 929	669 858	2	1
6552	Land subdividers and developers, n.e.c.²	712	686	1 422	322 156	542	651	164 602	170	35	1 422	157 554	6	5

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	34 989	27 719	79 961	9 810 596	26 032	25 454	1 224 130	8 957	2 265	79 961	8 586 466	1	1
\$10,000,000 or more -----	116	17	16 972	3 709 146	4	4	79 790	112	13	16 972	3 629 356	(W)	(W)
\$5,000,000 to \$9,999,999 -----	159	23	9 687	1 051 251	9	12	63 550	150	11	9 687	987 701	2	6
\$2,500,000 to \$4,999,999 -----	316	26	9 240	1 087 095	21	18	74 017	295	8	9 240	1 013 078	2	4
\$1,000,000 to \$2,499,999 -----	858	139	13 911	1 343 584	76	88	112 138	782	51	13 911	1 231 446	3	4
\$500,000 to \$999,999 -----	1 112	285	9 181	793 844	154	137	104 906	958	148	9 181	688 938	4	5
\$250,000 to \$499,999 -----	1 887	689	8 782	659 742	406	377	140 957	1 481	312	8 782	518 785	6	5
\$100,000 to \$249,999 -----	3 736	2 106	7 781	588 443	1 401	1 322	213 408	2 335	784	7 781	375 035	5	4
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	2 298	2 195	161 648	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	3 710	3 628	131 340	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 -----	(S)	(S)	(S)	(S)	17 953	17 673	142 377	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	5 896	5 788	96 798	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	3 857	3 788	27 951	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	3 098	3 060	11 314	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	5 102	5 037	6 315	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	30 986	24 900	93 279	9 474 653	21 533	21 558	998 290	9 453	3 342	93 279	8 476 363	1	1
\$10,000,000 or more -----	115	8	22 370	4 131 561	4	4	118 447	111	4	22 370	4 013 114	(W)	(W)
\$5,000,000 to \$9,999,999 -----	127	14	8 401	887 470	7	8	46 476	120	6	8 401	840 994	(W)	(W)
\$2,500,000 to \$4,999,999 -----	251	17	9 502	879 373	10	8	35 386	241	9	9 502	843 987	(W)	(W)
\$1,000,000 to \$2,499,999 -----	725	83	15 386	1 145 139	46	44	70 467	679	39	15 386	1 074 672	2	3
\$500,000 to \$999,999 -----	1 098	290	11 168	779 476	138	142	94 685	960	148	11 168	684 791	4	4
\$250,000 to \$499,999 -----	1 581	591	9 175	552 741	305	295	102 491	1 276	296	9 175	450 250	5	4
\$100,000 to \$249,999 -----	3 811	2 451	10 864	606 666	1 232	1 277	185 567	2 579	1 174	10 864	421 099	5	3
\$50,000 to \$99,999 -----	3 176	2 598	3 360	226 613	1 805	1 844	125 906	1 371	754	3 360	100 707	6	4
\$25,000 to \$49,999 -----	3 852	3 362	1 616	135 215	2 927	2 928	102 247	925	434	1 616	32 968	6	6
Less than \$25,000 -----	16 249	15 484	1 436	130 398	15 059	15 008	116 618	1 190	476	1 436	13 780	6	6
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	4 986	4 981	79 082	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	3 505	3 481	23 768	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	3 864	3 846	11 064	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	2 704	2 700	2 704	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdivider and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 SIC code	Industry	1987								
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†	
			All	Construction workers	All employees	Construction workers				
		A	B	C	D	E	F	G	H	
	Construction industries and land subdividers and developers	8 957	79 961	61 015	1 636 597	1 153 626	101 370	8 276 694	5 626 127	
15, 16, 17	Construction industries:									
15	Building construction—General contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	1 088	4 711	3 603	77 306	53 957	5 643	492 042	321 550	
1522	Other residential buildings	100	987	649	26 358	13 804	1 199	251 154	96 762	
1531	Operative builders	410	3 394	1 203	79 334	20 784	2 090	866 181	551 312	
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	79	1 125	833	27 095	17 350	1 700	143 897	66 011	
1542	Nonresidential buildings, n.e.c.	582	9 364	6 816	233 148	166 811	12 823	2 166 885	829 184	
16	Heavy construction other than building construction—contractors:									
1611	Highway and street construction	215	5 704	4 661	134 673	99 348	8 547	649 841	525 243	
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	18	693	602	14 391	12 210	1 130	108 254	64 602	
1623	Water, sewer, and utility lines	170	3 928	3 148	87 278	63 051	5 811	301 407	258 389	
1629	Heavy construction, n.e.c.	270	4 968	3 917	117 403	89 109	6 796	463 802	383 593	
17	Special trade contractors:									
1711	Plumbing, heating, and air-conditioning	1 230	10 225	7 788	178 941	127 287	11 537	634 449	548 275	
1721	Painting and paper hanging	538	2 323	1 937	36 117	29 941	2 832	100 452	92 318	
1731	Electrical work	889	8 173	6 429	190 927	143 900	10 891	566 983	553 539	
174	Masonry, stonework, tile setting, and plastering:									
1741	Masonry, stone setting, and other stonework	300	2 005	1 794	33 405	28 188	2 418	99 086	95 693	
1742	Plastering, drywall, and insulation work	343	3 718	3 178	68 249	53 949	5 472	191 263	174 961	
1743	Terrazzo, tile, marble, and mosaic work	31	200	160	4 951	3 652	180	14 605	14 170	
175	Carpentry and floor work:									
1751	Carpentry	559	2 195	1 794	31 027	23 122	2 570	155 316	130 312	
1752	Floor laying and other floor work	141	614	477	11 647	7 276	559	53 022	47 654	
1761	Roofing, siding, and sheet metal work	383	3 552	2 913	56 856	42 490	4 778	210 124	198 190	
1771	Concrete work	496	4 116	3 491	68 305	52 977	5 095	216 616	200 542	
1781	Water well drilling	69	262	184	4 189	3 027	316	16 441	16 238	
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	67	1 186	976	26 317	20 151	1 509	92 963	78 509	
1793	Glass and glazing work	70	630	466	12 720	9 069	699	40 592	40 320	
1794	Excavation work	294	1 580	1 241	30 278	23 413	2 009	95 200	87 392	
1795	Wrecking and demolition work	36	177	138	2 410	1 575	184	6 222	5 627	
1796	Installing building equipment, n.e.c.	43	633	484	17 655	13 490	780	53 020	51 041	
1799	Special trade contractors, n.e.c.	363	2 628	2 053	44 743	32 826	3 663	150 079	141 928	
6552	Land subdividers and developers, n.e.c.	161	857	69	20 861	858	*127	136 788	52 762	

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts†	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
3 506 543	2 289 022	2 650 567	138 551	122 066	1 218 245	93 279	8 158 522	3 481 803	1	1	3	15, 16, 17
173 665 52 584	157 463 48 377	170 492 154 392	4 462 1 607	5 540 701	54 933 9 849	7 722 1 612	516 800 161 744	208 235 45 843	6 9	7 8	18 22	152 1521 1522
322 709	(D)	314 868	4 481	(D)	86 455	3 391	789 050	270 597	4	4	(D)	1531
49 684 546 277	26 969 314 139	77 886 1 337 701	2 404 11 730	1 650 7 695	14 865 80 225	2 591 9 420	467 452 1 693 334	85 534 420 423	7 3	7 4	10 9	154 1541 1542
334 029	214 427	124 597	21 025	24 350	261 437	4 742	402 578	207 518	3	2	2	1611
20 984 172 548 260 700	43 973 92 156 134 844	43 651 43 018 80 209	4 233 16 566 19 648	1 085 10 770 19 489	13 811 101 377 159 754	814 4 351 5 762	77 116 247 420 857 485	23 943 153 118 392 561	5 6 3	1 3 2	10 11 5	162 1622 1623
302 483	256 096	86 173	11 688	6 860	67 612	9 633	648 347	364 504	2	2	9	1711
69 868	23 395	8 133	1 527	2 405	13 801	2 820	87 320	61 244	6	7	37	1721
343 119	215 471	13 443	8 482	5 648	61 084	8 929	666 409	351 632	2	1	10	1731
63 318 113 376 8 385	34 231 64 489 (D)	3 392 16 302 435	1 849 2 723 107	1 366 2 800 (D)	15 996 19 537 959	2 642 5 305 298	97 425 204 858 18 504	57 360 113 343 7 847	6 5 20	6 4 10	36 20 (D)	174 1741 1742
66 603 24 450	66 833 23 797	25 004 5 368	1 934 858	922 797	15 958 3 324	3 270 825	119 139 44 431	62 728 20 986	8 10	12 7	22 34	175 1751 1752
114 338	84 407	11 933	3 474	2 069	23 340	3 508	180 268	95 353	7	5	30	1761
133 900	67 791	16 073	5 916	3 523	44 141	5 589	267 715	160 349	5	4	18	1771
9 099	7 260	202	231	949	8 304	353	22 265	13 213	15	12	22	1781
52 324 23 637 69 386 5 295 36 798 90 153	31 001 20 009 24 483 942 14 786 57 418	14 454 272 7 808 594 1 979 8 151	2 839 794 3 864 *420 1 424 3 131	2 026 79 4 482 279 533 2 725	14 819 1 408 86 794 2 518 3 121 26 772	811 914 3 919	44 206 63 580 222 599 521 839 1 782	30 987 34 011 160 068 442 68 328 89 364	7 9 9 8 7 7	6 8 9 8 3 7	8 31 27 21 2 22	179 1793 1794 1795 1796 1799
46 820	14 560	84 026	1 122	1 628	26 040	1 422	100 255	45 256	7	12	13	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	8 957	9 453	8 509	7 499	1	1	3	3
Proprietors and working partners	2 265	3 342	4 936	4 727	5	4	5	5
All employees**	79 961	93 279	74 493	75 921	1	1	1	2
Construction workers:								
March	54 594	69 969	53 451	55 749	1	1	1	2
May	61 603	74 916	61 252	59 845	1	1	1	2
August	66 369	80 147	65 647	70 217	1	1	1	2
November	61 495	71 698	62 779	63 885	1	1	1	2
Average	61 015	75 186	60 828	63 037	1	1	1	2
Other employees:								
March	19 252	17 988	13 241	11 607	1	1	1	2
May	18 841	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	19 027	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	18 662	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	18 946	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	21 649	26 747	(NA)	(NA)	1	1	(NA)	(NA)
April to June	25 598	29 915	(NA)	(NA)	1	1	(NA)	(NA)
July to September	28 288	31 777	(NA)	(NA)	1	1	(NA)	(NA)
October to December	25 833	28 890	(NA)	(NA)	2	1	(NA)	(NA)
Total hours worked	101 370	117 331	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	1 636 597	1 722 473	959 258	700 310	1	1	1	2
Payroll, construction workers	1 153 626	1 321 896	740 876	566 130	1	1	1	2
Payroll, other employees	482 971	400 577	218 381	134 180	1	1	1	2
First quarter payroll, all employees	363 215	390 588	196 773	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees								
Legally required expenditures	342 816	313 348	163 751	(NA)	1	1	1	(NA)
Voluntary expenditures	237 656	230 924	92 914	(NA)	1	1	1	(NA)
105 159	82 424	70 837	(NA)	(NA)	1	1	1	(NA)
Dollar value of business done								
Value of construction work ¹	8 586 466	8 476 363	4 322 414	2 852 411	1	1	1	2
Value of construction work subcontracted in from others	8 276 694	8 158 522	4 082 458	2 680 343	1	1	1	2
Land receipts ²	1 682 988	1 852 754	1 007 565	621 537	2	3	(W)	(W)
Other business receipts	140 334	123 797	(NA)	(NA)	5	1	(NA)	(NA)
169 438	194 044	239 956	172 068	3	2	2	2	7
Net value of construction	5 626 127	5 873 743	3 046 056	1 899 829	1	1	1	2
Value added††	3 506 543	3 481 803	1 858 813	1 174 431	1	1	1	2
Selected costs								
Materials, components, and supplies ³	4 939 589	4 870 762	2 358 571	1 575 140	1	1	1	2
Construction work subcontracted to others	2 163 942	2 451 674	1 260 399	794 626	2	1	1	3
Selected power, fuels, and lubricants	2 650 567	2 284 778	1 036 402	780 514	1	1	2	3
Electricity	125 079	134 309	61 770	(NA)	1	1	1	(NA)
Natural gas	16 719	16 802	6 543	(NA)	2	2	2	(NA)
Gasoline and diesel fuel	9 230	9 087	4 638	(NA)	2	2	5	(NA)
On highway use	90 899	99 649	42 315	(NA)	1	1	1	(NA)
Off highway use	61 385	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	29 514	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
8 230	8 770	8 274	(NA)	(NA)	3	3	3	(NA)
Rental cost for machinery, equipment, and buildings								
For machinery and equipment	138 551	113 516	52 864	(NA)	2	2	1	(NA)
For buildings	96 482	82 501	41 823	37 639	2	2	2	3
42 068	31 014	11 041	(NA)	(NA)	2	2	2	(NA)
Selected purchased services								
Communication services	129 608	114 697	75 174	(NA)	2	1	1	(NA)
Repairs to buildings and other structures	29 240	26 064	15 569	(NA)	2	2	2	(NA)
Repairs to machinery and equipment	7 053	5 693	3 761	(NA)	6	4	4	(NA)
93 314	82 939	55 844	(NA)	(NA)	2	1	1	(NA)
Ownership of construction projects:								
Value of construction work	8 276 694	8 158 522	4 082 458	2 680 343	1	1	1	2
Government owned	2 198 061	1 328 860	766 470	680 440	2	2	1	3
Federal	890 945	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
State and local	1 307 116	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	6 078 632	6 829 662	3 315 988	1 999 903	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	1 185 837	1 127 936	2	1
Capital expenditures, other than land	122 066	123 719	3	2
New	87 953	86 572	3	2
Used	34 113	37 147	6	3
Retirements and disposition of depreciable assets	89 658	57 822	3	4
End-of-year gross book value of depreciable assets	1 218 245	1 193 834	2	1
Depreciation charges during year	145 495	148 284	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	196 275	209 064	5	2
Capital expenditures, other than land	19 198	14 730	4	4
New buildings and other structures	16 022	12 082	4	4
Used buildings and other structures	3 175	2 647	15	21
Retirements and disposition of depreciable assets	13 870	13 336	11	5
End-of-year gross book value of depreciable assets	201 603	210 458	5	2
Depreciation charges during year	20 220	18 220	5	4
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	989 562	918 872	2	2
Capital expenditures, other than land	102 868	108 989	3	2
New machinery and equipment, including automobiles and trucks	71 930	74 489	3	2
New automobiles and trucks, intended primarily for highway use	26 856	26 518	5	3
Used machinery and equipment, including automobiles and trucks	30 937	34 500	6	3
Retirements and disposition of depreciable assets	75 788	44 485	3	4
End-of-year gross book value of depreciable assets	1 016 641	983 375	2	1
Depreciation charges during year	125 275	130 063	2	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	8 957	1
Value of construction work	8 276 694	1
Establishments with inventories:		
Number	3 438	4
Value of construction work	4 533 729	1
Inventories ¹ :		
End of 1987, materials and supplies	90 001	4
End of 1986, materials and supplies	95 042	4
Establishments with no inventories:		
Number	4 355	3
Value of construction work	3 028 293	2
Establishments not reporting:		
Number	1 164	7
Value of construction work	714 672	4

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	8 957	5 395	1 809	1 003	507	161	63	9	4	2	
All employees**	79 961	10 351	11 591	13 361	15 070	10 821	9 339	3 193	6 231	(D)	
Payroll, all employees	1 636 597	144 667	191 317	265 861	333 832	255 841	229 262	71 896	143 918	(D)	
Construction worker hours (thousands)	101 370	10 870	13 667	15 212	20 407	14 745	13 223	4 041	9 203	(D)	
Dollar value business done	8 586 466	1 008 167	916 198	1 098 549	1 543 068	1 203 036	1 385 249	349 895	1 082 303	(D)	
Value of construction work ¹	8 276 694	951 266	876 797	1 056 948	1 498 305	1 152 992	1 322 076	1 418 309	(D)	(D)	
Net value of construction work†	5 626 127	695 457	664 709	835 929	1 055 039	812 203	1 155 797	(D)	406 990	(D)	
Value added††	3 506 543	385 834	387 091	518 356	643 778	502 915	765 326	(D)	303 241	(D)	
Cost of materials, components, supplies, and fuels	2 289 022	327 392	297 045	344 046	432 998	339 794	347 576	200 168	(D)	(D)	
Cost of construction work subcontracted to others	2 650 567	255 808	212 088	221 018	443 265	340 788	1 177 597	(D)	(D)	(D)	
Rental cost for machinery, equipment, and buildings	138 551	10 214	13 859	21 557	23 374	23 735	26 878	18 932	(D)	(D)	
Capital expenditures, other than land	122 066	11 910	16 701	16 079	17 751	16 369	21 404	18 867	2 983	(D)	
End-of-year gross book value of depreciable assets	1 218 245	131 281	181 753	178 701	189 794	183 462	212 721	140 530	(D)	(D)	
1982											
All employees**	93 279	11 619	12 022	14 963	18 776	11 439	10 835	7 707	5 917	—	
Value of construction work ¹	8 158 522	623 133	699 965	920 548	1 483 065	1 031 983	1 275 660	895 279	1 228 889	—	
Value added††	3 481 803	305 728	337 814	449 397	670 963	415 899	532 006	289 502	480 493	—	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	3	4	4	2	1	2	(W)	(W)	(D)	
Net value of construction work†	1	6	5	3	2	1	1	(D)	(W)	(W)	
Capital expenditures, other than land	3	12	13	8	5	1	4	(W)	(W)	(D)	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—										\$10,000,000 or more
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999		
1987												
Number of establishments	8 957	(S)	(S)	(S)	2 335	1 481	958	782	295	150	112	
All employees**	79 961	(S)	(S)	(S)	7 781	8 782	9 181	13 911	9 240	9 687	16 972	
Payroll, all employees	1 636 597	(S)	(S)	(S)	104 107	138 474	176 184	285 396	216 255	198 428	479 594	
Construction worker hours (thousands)	101 370	(S)	(S)	(S)	9 433	10 467	10 617	16 917	13 645	11 521	24 611	
Dollar value of business done	8 586 466	(S)	(S)	(S)	375 035	518 785	688 938	1 231 446	1 013 078	987 701	3 269 356	
Value of construction work ¹	8 276 694	(S)	(S)	(S)	366 845	498 528	660 533	1 181 723	971 986	954 230	3 504 426	
Net value of construction work†	5 626 127	(S)	(S)	(S)	334 288	421 660	542 890	932 806	729 623	658 979	1 877 540	
Value added††	3 506 543	(S)	(S)	(S)	211 969	265 901	340 895	565 550	423 227	380 059	1 240 547	
Cost of materials, components, supplies, and fuels	2 289 022	(S)	(S)	(S)	129 174	171 003	217 980	391 019	323 083	300 325	704 247	
Cost of construction work subcontracted to others	2 650 567	(S)	(S)	(S)	32 556	76 868	117 642	248 917	242 363	295 251	1 626 886	
Rental cost for machinery, equipment, and buildings	138 551	(S)	(S)	(S)	6 352	10 867	12 280	18 816	18 380	20 186	50 069	
Capital expenditures, other than land	122 066	(S)	(S)	(S)	5 576	14 157	9 983	15 560	14 791	12 748	46 560	
End-of-year gross book value of depreciable assets	1 218 245	(S)	(S)	(S)	89 590	124 613	115 392	162 572	166 547	125 682	401 882	
1982												
All employees**	93 279	1 436	1 616	3 360	10 864	9 175	11 168	15 386	9 502	8 401	22 370	
Value of construction work ¹	8 158 522	13 490	32 282	98 090	411 034	435 609	658 982	1 030 097	814 912	801 549	3 862 476	
Value added††	3 481 803	7 114	17 887	54 818	223 595	229 721	336 102	483 479	393 663	360 581	1 374 841	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)												
All employees**	1	(S)	(S)	(S)	5	6	4	3	2	2	(W)	
Net value of construction work†	1	(S)	(S)	(S)	4	5	5	4	4	4	(W)	
Capital expenditures, other than land	3	(S)	(S)	(S)	15	15	13	8	6	7	(W)	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	8 276 694	5 972 143	1 406 918	630 761	1	1	2	2
Building construction	6 202 495	4 760 389	1 000 673	428 262	1	2	3	3
Single-family houses	1 998 073	1 659 546	207 244	131 282	3	3	6	6
Single-family houses, detached	1 753 432	1 449 957	190 111	113 364	3	3	7	7
Single-family houses, attached	244 641	209 589	17 133	17 918	6	7	7	5
Apartment buildings with two or more apartments	258 896	209 633	23 464	25 798	4	5	16	6
Other residential buildings, including hotels and motels	244 604	179 932	42 928	21 742	5	4	17	13
Hotels and motels	157 796	131 434	18 397	7 964	4	4	21	9
Other residential buildings, excluding hotels and motels	86 808	48 498	24 531	13 778	10	8	25	19
Office buildings	1 251 239	965 903	214 568	70 767	1	1	4	3
Other commercial buildings such as stores, restaurants, and automobile service stations	780 967	528 353	176 015	76 598	7	10	5	7
Industrial buildings and warehouses	493 110	341 305	108 373	43 432	2	2	3	6
Industrial buildings	366 563	247 867	85 410	33 286	2	2	3	8
Warehouses	126 547	93 438	22 963	10 146	3	3	9	7
Religious buildings	87 616	57 046	23 880	6 689	7	8	15	10
Educational buildings	286 287	196 605	71 715	17 966	3	4	6	8
Hospitals and institutional buildings	671 901	544 648	103 079	24 173	1	1	6	8
Farm buildings	13 321	9 862	1 503	1 955	18	23	18	20
Amusement, social, and recreational buildings	43 650	30 547	9 799	3 302	12	11	22	7
Other nonresidential buildings	59 655	37 003	18 099	4 552	5	5	8	17
Land development for buildings	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	1 820 494	1 211 753	406 245	202 495	1	1	1	6
Highways, streets, and related facilities	665 114	314 849	257 453	92 811	2	2	1	11
Outdoor swimming pools	10 630	6 241	1 329	3 059	21	24	22	15
Parking areas including private driveways	25 131	13 559	5 391	6 180	15	17	9	32
Fencing	27 169	21 572	2 521	3 075	21	23	19	21
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	15 636	10 146	766	4 723	11	13	13	23
Bridges, tunnels, and elevated highways	122 090	106 168	13 139	2 783	2	1	4	19
Tunnels	13 826	13 318	133	*374	3	1	33	64
Bridges and elevated highways	108 264	92 849	13 005	2 409	2	2	4	19
Dam and reservoir construction	22 385	10 561	9 799	2 024	6	3	4	39
Conservation and development construction	46 356	34 674	6 881	4 800	7	7	17	35
Power and communication transmission lines, towers, and related facilities	167 487	99 661	51 488	16 337	3	3	2	7
Sewers, water mains, and related facilities	252 644	215 993	24 661	11 990	4	4	12	12
Sewers, sewer lines, and related facilities	121 993	102 283	13 573	6 136	7	8	16	16
Water mains and related facilities	130 651	113 709	11 087	5 853	4	4	14	13
Pipeline, other than sewer or water lines	64 785	56 965	3 715	4 104	6	6	24	6
Blast furnaces, petroleum refineries, and chemical complexes	89 440	73 780	5 437	10 222	3	(W)	2	23
Power plants	45 944	40 043	1 219	4 681	4	1	11	35
Power plants, nuclear	2 386	2 106	*132	147	13	12	58	13
Power plants, except nuclear	43 557	37 936	1 086	4 533	4	(W)	6	36
Sewage treatment and water treatment plants	74 304	61 079	8 548	4 676	5	5	24	10
Sewage treatment plants	29 499	20 235	5 263	3 999	6	7	12	11
Water treatment plants	44 805	40 844	*3 284	676	6	5	45	14
Oilfields	31 463	25 304	*1 397	4 761	9	5	61	26
Earthmoving, nonbuilding	78 534	70 219	4 411	3 903	8	7	23	33
Other nonbuilding construction	81 382	50 938	8 090	22 365	9	8	18	24
Construction work, n.s.k.	253 691	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	8 158 522	7 209 092	(NA)	949 429	1	1	(NA)	1
Building construction	5 778 474	5 214 487	(NA)	563 987	1	1	(NA)	1
Single-family houses	1 942 867	1 757 329	(NA)	185 538	1	2	(NA)	3
Single-family houses, detached	1 478 522	1 321 327	(NA)	157 195	2	2	(NA)	3
Single-family houses, attached	464 344	436 001	(NA)	28 343	2	2	(NA)	8
Apartment buildings with two or more apartments	302 278	261 891	(NA)	40 387	3	3	(NA)	8
Other residential buildings, including hotels and motels	169 032	148 262	(NA)	20 770	3	3	(NA)	10
Office buildings	1 673 253	1 570 370	(NA)	102 682	1	1	(NA)	2
Other commercial buildings such as stores, restaurants, and automobile service stations	441 203	379 411	(NA)	61 791	2	3	(NA)	4
Industrial buildings and warehouses	797 954	718 361	(NA)	79 592	1	1	(NA)	3
Industrial buildings	648 028	582 604	(NA)	65 424	1	1	(NA)	3
Warehouses	149 925	135 756	(NA)	14 168	2	2	(NA)	5
Religious buildings	33 331	26 775	(NA)	6 555	8	11	(NA)	4
Educational buildings	174 199	149 099	(NA)	25 099	2	2	(NA)	3
Hospitals and institutional buildings	140 245	120 260	(NA)	19 984	2	2	(NA)	4
Farm buildings	18 853	15 755	(NA)	3 098	12	13	(NA)	14
Amusement, social, and recreational buildings	41 782	37 007	(NA)	4 775	6	5	(NA)	18
Other nonresidential buildings	43 473	29 961	(NA)	13 512	2	3	(NA)	2
Nonbuilding construction	1 801 669	1 524 474	(NA)	277 195	1	1	(NA)	1
Highways, streets, and related facilities	474 827	387 633	(NA)	87 194	1	1	(NA)	2
Bridges, tunnels, and elevated highways	73 871	60 613	(NA)	13 257	2	2	(NA)	3
Dam and reservoir construction	18 915	(D)	(NA)	(D)	(D)	(D)	(D)	(D)
Conservation and development construction	17 579	14 196	(NA)	3 383	10	10	(NA)	13
Power and communication transmission lines, towers, and related facilities	115 381	100 853	(NA)	14 527	5	5	(NA)	14
Sewers, water mains, and related facilities	173 006	153 762	(NA)	19 243	4	4	(NA)	9
Pipeline, other than sewer or water lines	50 590	41 587	(NA)	9 003	2	2	(NA)	4
Heavy industrial facilities	689 135	(D)	(NA)	(D)	(W)	(D)	(D)	(D)
Blast furnaces, petroleum refineries, and chemical complexes	504 730	(D)	(NA)	(D)	(D)	(D)	(D)	(D)
Power plants	184 405	(D)	(NA)	(D)	1	(D)	(D)	(D)
Sewage treatment and water treatment plants	60 921	56 287	(NA)	4 634	2	2	(NA)	6
Oilfields	20 792	11 851	(NA)	8 940	7	3	(NA)	16
Other nonbuilding construction	106 640	89 073	(NA)	17 567	3	3	(NA)	7
Construction work, n.s.k.	578 378	470 131	(NA)	108 246	2	2	(NA)	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers -----	8 957	61 015	101 370	54 594	21 649	61 603	25 598
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 088	3 603	5 643	3 216	1 244	3 489	1 372
1522	Other residential buildings -----	100	649	1 199	573	241	610	279
1531	Operative builders -----	410	1 203	2 090	1 241	475	1 223	482
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	79	833	1 700	693	345	824	412
1542	Nonresidential buildings, n.e.c. -----	582	6 816	12 823	6 176	2 961	6 603	3 066
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	215	4 661	8 547	3 093	1 327	5 203	2 458
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	18	602	1 130	595	246	633	316
1623	Water, sewer, and utility lines -----	170	3 148	5 811	2 627	1 080	3 160	1 450
1629	Heavy construction, n.e.c. -----	270	3 917	6 796	3 464	1 453	3 842	1 610
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	1 230	7 788	11 537	7 649	2 741	8 032	2 993
1721	Painting and paper hanging -----	538	1 937	2 832	1 754	622	1 945	716
1731	Electrical work -----	889	6 429	10 891	6 213	2 559	6 171	2 665
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	300	1 794	2 418	1 592	530	1 838	638
1742	Plastering, drywall, and insulation work -----	343	3 178	5 472	2 793	1 126	3 162	1 301
1743	Terrazzo, tile, marble, and mosaic work -----	31	160	180	134	34	150	46
175	Carpentry and floor work:							
1751	Carpentry -----	559	1 794	2 570	1 391	508	2 139	670
1752	Floor laying and other floor work -----	141	477	559	396	124	377	125
1761	Roofing, siding, and sheet metal work -----	383	2 913	4 778	2 675	984	2 776	1 144
1771	Concrete work -----	496	3 491	5 095	2 892	947	3 755	1 423
1781	Water well drilling -----	69	184	316	173	67	214	82
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	67	976	1 509	951	365	1 047	434
1793	Glass and glazing work -----	70	466	699	467	167	471	177
1794	Excavation work -----	294	1 241	2 009	1 123	413	1 269	529
1795	Wrecking and demolition work -----	36	138	184	86	37	102	50
1796	Installing building equipment, n.e.c. -----	43	484	780	680	234	374	165
1799	Special trade contractors, n.e.c. -----	363	2 053	3 663	1 886	785	2 103	943
6552	Land subdividers and developers, n.e.c. --	161	69	*127	47	*19	76	*37

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—											1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K		
H	I	J	K												
66 369	28 288	61 495	25 833	1	1	1	1	1	1	1	1	1	1	2	15, 16, 17
3 851 670	1 584 317	3 856 742	1 441 360	6 11	8 17	8 9	9 14	6 10	8 15	6 11	9 18	7 16	8 24	15	152 1521 1522
1 241	637	1 109	495	7	10	7	10	7	10	8	13	8	11	1531	154
965 7 329	497 3 409	836 7 156	445 3 386	8 3	10 2	14 3	16 3	9 3	12 3	8 3	11 3	5 3	7 3	1541 1542	16
5 835	2 776	4 513	1 984	3	3	3	5	3	4	3	3	3	3	4	1611
585 3 652 4 344	284 1 761 1 848	597 3 152 4 017	282 1 519 1 884	5 6 2	9 9 3	6 6 2	10 10 3	6 6 3	10 9 3	6 6 3	10 9 4	2 7 3	6 10 4	1622 1623 1629	
															17
8 181	2 993	7 290	2 808	2	3	3	4	3	4	3	4	3	3	4	1711
2 130	782	1 920	710	6	7	7	8	7	8	9	8	7	8	8	1721
6 613	2 829	6 719	2 835	2	2	2	2	2	2	2	2	2	2	3	1731
															174
1 968 3 263 160	662 1 479 53	1 778 3 496 193	586 1 564 45	6 6 20	8 8 4	6 6 18	9 6 6	7 5 16	8 7 4	8 8 15	9 10 5	7 9 29	10 12 6	1741 1742 1743	
1 856 602	704 166	1 796 534	687 142	8 11	10 7	8 14	10 14	13 10	11 8	8 10	10 5	11 14	14 9	175 1751 1752	
3 291	1 458	2 911	1 190	7	10	7	10	6	10	8	12	8	11	11	1761
4 017	1 527	3 301	1 196	5	7	5	7	5	7	5	7	5	7	7	1771
164	86	184	79	12	12	18	20	11	13	14	15	10	7	1781	179
972 482 1 303 138 434 2 234	367 182 573 50 192 1 024	932 442 1 270 228 450 1 989	342 170 493 46 186 910	7 8 9 12 28 7	7 6 9 12 34 2	6 8 9 12 35 5	8 4 9 12 39 2	6 8 9 12 33 7	7 6 9 12 37 2	6 9 13 30 27 7	6 7 9 13 30 2	10 9 13 9 32 8	10 7 13 9 32 2	1791 1793 1794 1795 1796 1799	
77	*34	74	*34	33	51	32	45	36	55	35	55	30	48	6552	

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	8.9	20.5	1 661.4	135.7	.198	.277	.320	.017
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.3	16.4	1 566.2	136.6	.157	.320	.346	.009
1522	Other residential buildings	9.9	26.7	1 847.5	387.0	.105	.193	.615	.006
1531	Operative builders	8.3	23.4	1 737.3	720.0	.092	(D)	.364	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	14.2	24.1	2 040.8	172.7	.188	.187	.541	.017
1542	Nonresidential buildings, n.e.c.	16.1	24.9	1 881.3	317.9	.108	.145	.617	.005
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	26.5	23.6	1 833.7	139.4	.207	.330	.192	.032
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	38.5	20.8	1 877.1	179.8	.133	.406	.403	.039
1623	Water, sewer, and utility lines	23.1	22.2	1 845.9	95.7	.290	.306	.143	.055
1629	Heavy construction, n.e.c.	18.4	23.6	1 735.0	118.4	.253	.291	.173	.042
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	8.3	17.5	1 481.4	81.5	.282	.404	.136	.018
1721	Painting and paper hanging	4.3	15.5	1 462.1	51.9	.360	.233	.081	.015
1731	Electrical work	9.2	23.4	1 694.0	88.2	.337	.380	.024	.015
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	6.7	16.7	1 347.8	55.2	.337	.345	.034	.019
1742	Plastering, drywall, and insulation work	10.8	18.4	1 721.8	60.2	.357	.337	.085	.014
1743	Terrazzo, tile, marble, and mosaic work	6.5	24.8	1 125.0	91.3	.339	(D)	.030	.007
175	Carpentry and floor work:								
1751	Carpentry	3.9	14.1	1 432.6	86.6	.200	.430	.161	.012
1752	Floor laying and other floor work	4.4	19.0	1 171.9	111.2	.220	.449	.101	.016
1761	Roofing, siding, and sheet metal work	9.3	16.0	1 640.2	72.1	.271	.402	.057	.017
1771	Concrete work	8.3	16.6	1 459.5	62.0	.315	.313	.074	.027
1781	Water well drilling	3.8	16.0	1 717.4	89.4	.255	.442	.012	.014
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	17.7	22.2	1 546.1	95.2	.283	.333	.155	.031
1793	Glass and glazing work	9.0	20.2	1 500.0	87.1	.313	.493	.007	.020
1794	Excavation work	5.4	19.2	1 618.9	76.7	.318	.257	.082	.041
1795	Wrecking and demolition work	4.9	13.6	1 333.3	45.1	.387	.151	.095	*.068
1796	Installing building equipment, n.e.c.	14.7	27.9	1 611.6	109.5	.333	.279	.037	.027
1799	Special trade contractors, n.e.c.	7.2	17.0	1 784.2	73.1	.298	.383	.054	.021
6552	Land subdividers and developers, n.e.c.	5.3	24.3	*1 840.6	1 982.4	.153	.106	.614	.008

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Relative standard error of estimate (percent) for column—		
										I	B	E
	DENVER-BOULDER, CO CMSA											
	Construction industries and land subdividers and developers	4 456	46 493	982 591	4 810 359	3 414 090	2 093 225	1 427 706	1 396 269	76 077	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	438	2 109	38 084	201 392	137 576	76 522	65 637	63 816	2 805	6	8
1522	Other residential buildings	58	691	18 324	184 498	59 791	33 781	28 769	124 708	447	9	5
1531	Operative builders	180	1 806	45 557	576 127	376 070	226 504	163 684	200 057	8 834	4	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	44	720	18 586	121 166	50 638	37 835	(D)	70 527	1 057	7	6
1542	Nonresidential buildings, n.e.c.	355	4 750	116 522	1 050 077	498 253	303 352	(D)	551 823	3 473	4	7
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	75	2 571	67 966	344 029	271 195	160 691	117 153	72 834	14 887	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	93	2 288	51 789	177 674	152 270	103 272	52 656	25 404	6 784	10	5
1629	Heavy construction, n.e.c.	101	1 693	38 115	156 461	122 633	80 463	(D)	33 828	11 566	2	2
17	Special trade contractors:											
1711	Plumbing, heating, and air-conditioning	636	7 094	119 970	401 788	351 189	190 387	166 356	50 599	4 818	2	2
1721	Painting and paper hanging	307	1 583	26 335	71 116	65 336	49 057	16 850	5 780	*1 926	7	8
1731	Electrical work	477	5 598	140 679	417 638	408 162	254 832	156 027	9 475	4 535	2	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	166	1 148	19 433	59 252	57 149	37 328	20 510	2 103	*1 030	7	7
1742	Plastering, drywall, and insulation work	135	2 169	44 089	121 209	108 411	72 171	38 816	12 798	1 474	6	4
1743	Terrazzo, tile, marble, and mosaic work	21	130	3 737	11 300	(D)	6 545	(D)	(D)	(D)	2	(D)
175	Carpentry and floor work:											
1751	Carpentry	264	1 203	19 435	110 477	91 878	41 443	51 134	18 600	558	10	16
1752	Floor laying and other floorwork	71	475	10 051	43 968	39 797	20 157	20 125	4 171	*484	11	6
1761	Roofing, siding, and sheet metal work	206	2 223	37 262	129 336	122 743	76 564	46 283	6 592	1 587	8	6
1771	Concrete work	261	2 532	43 470	135 914	124 756	84 783	40 994	11 158	2 131	5	5
1781	Water well drilling	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	37	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work	47	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work	103	698	14 728	42 239	38 610	29 714	12 083	3 630	1 855	11	12
1795	Wrecking and demolition work	12	114	2 331	5 815	5 220	4 888	623	595	(D)	31	22
1796	Installing building equipment, n.e.c.	33	(D)	(D)	49 478	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	213	1 767	30 977	104 413	99 158	63 944	37 906	5 256	1 400	8	8
6552	Land subdividers and developers, n.e.c.	97	605	16 246	104 158	29 610	30 736	5 320	74 548	1 325	6	9
	BOULDER-LONGMONT, CO PMSA											
	Construction industries and land subdividers and developers	639	4 017	74 613	363 982	273 799	163 227	116 777	90 183	4 954	3	7
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	73	348	5 259	23 251	17 398	9 179	8 481	5 853	97	13	14
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	38	166	3 561	41 610	23 341	12 571	10 865	18 269	56	23	30
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	4	39	1 024	10 996	(D)	2 177	(D)	(D)	(D)	(W)	(D)
1542	Nonresidential buildings, n.e.c.	59	501	9 001	88 498	55 225	*42 596	14 386	33 273	*313	13	32

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—		
											B	E	
	BOULDER-LONGMONT, CO PMSA—Con.												
	Construction Industries and land subdividers and developers—Con.												
15,16, 17 16	Construction Industries—Con.												
	Heavy construction other than building construction—contractors:												
1611	Highway and street construction	5	184	4 691	18 665	15 147	10 432	(D)	3 518	344	14	8	
1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	1 (S)	(D) 169 (S)	(D) 3 594 (S)	16 433 (S)	13 954 (S)	10 315 (S)	(D) (D) (S)	(D) 2 479 (S)	(D) (D) (S)	(D) (W) (S)	(D) (W) (S)	
1623	Water, sewer, and utility lines	9											
1629	Heavy construction, n.e.c.												
17	Special trade contractors:												
1711	Plumbing, heating, and air- conditioning	94	398	7 918	26 605	25 188	14 469	11 723	*1 416	*669	4	7	
1721	Painting and paper hanging	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	17	19	
1731	Electrical work	66	482	9 897	24 740	24 641	14 791	10 813	99	412	4	8	
174	Masonry, stonework, tile setting, and plastering:												
1741	Masonry, stone setting, and other stonework	30	164	3 048	10 187	9 512	5 919	(D)	675	*669	21	30	
1742	Plastering, drywall, and insulation work	24	122	2 053	5 464	5 164	3 053	2 139	300	67	14	15	
1743	Terrazzo, tile, marble, and mosaic work	-	-	-	-	-	-	-	-	-	-	-	
175	Carpentry and floor work:												
1751	Carpentry	47	122	1 736	14 187	9 438	4 183	*5 452	*4 749	*97	15	33	
1752	Floor laying and other floorwork	7	27	517	1 725	(D)	917	(D)	(D)	50	(W)	(D)	
1761	Roofing, siding, and sheet metal work	*18	214	3 383	12 532	(D)	6 548	5 282	(D)	(D)	4	(D)	
1771	Concrete work	42	309	5 145	13 760	13 228	8 105	5 122	533	*269	13	11	
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
179	Miscellaneous special trade contractors:												
1791	Structural steel erection	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1793	Glass and glazing work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1794	Excavation work	23	110	1 851	5 943	5 740	4 603	(D)	*203	*477	26	27	
1795	Wrecking and demolition work	-	-	-	-	-	-	-	-	-	-	-	
1796	Installing building equipment, n.e.c.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1799	Special trade contractors, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
	DENVER, CO PMSA												
	Construction industries and land subdividers and developers	3 818	42 476	907 978	4 446 377	3 140 291	1 929 998	1 310 929	1 306 086	71 123	1	1	
15,16, 17	Construction Industries:												
	Building construction—General contractors and operative builders:												
152	General contractors, residential buildings:												
1521	Single-family houses	365	1 761	32 825	178 141	120 178	67 343	57 156	57 963	2 708	7	9	
1522	Other residential buildings	51	640	17 332	181 106	57 813	32 622	27 946	123 293	443	10	5	
1531	Operative builders	142	1 640	41 996	534 517	352 730	213 933	152 819	181 788	8 778	4	4	
154	General contractors, nonresidential buildings:												
1541	Industrial buildings and warehouses	40	(D)	17 562	110 170	(D)	3 565	(D)	(D)	3 160	(D)	7	
1542	Nonresidential buildings, n.e.c.	297	4 250	107 521	961 579	443 029	260 757	(D)	518 550	4	6		
16	Heavy construction other than building construction—contractors:												
1611	Highway and street construction	69	2 387	63 275	325 364	256 048	150 259	(D)	69 316	14 543	3	2	
1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	8	408	8 309	70 705	39 355	16 205	(D)	31 350	346	(W)	(W)	
1623	Water, sewer, and utility lines	84	2 120	48 195	161 241	138 316	92 957	(D)	22 925	(D)	11	5	
1629	Heavy construction, n.e.c.	81	1 646	37 592	153 905	120 136	78 536	(D)	33 769	11 548	2	2	

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Relative standard error of estimate (percent) for column—		
										I	B	E
DENVER, CO PMSA—Con.												
15, 16, 17 17	Construction industries and land subdividers and developers—Con. Construction industries—Con. Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	542	6 696	112 051	375 183	326 000	175 917	154 633	49 183	4 148	3	3
1721	Painting and paper hanging-----	267	1 401	23 971	64 956	59 378	44 515	15 434	5 578	*1 770	8	8
1731	Electrical work -----	410	5 116	130 782	392 898	383 521	240 041	145 214	9 377	4 123	2	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	137	984	16 385	49 064	47 636	31 410	(D)	1 428	361	7	7
1742	Plastering, drywall, and insulation work-----	111	2 047	42 036	115 745	103 247	69 118	36 678	12 498	1 407	6	5
1743	Terrazzo, tile, marble, and mosaic work-----	21	130	3 737	11 300	(D)	6 545	(D)	(D)	(D)	2	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	217	1 081	17 699	96 290	82 440	37 260	45 682	13 851	461	11	17
1752	Floor laying and other floorwork-----	64	448	9 534	42 243	(D)	19 240	(D)	(D)	*434	12	(D)
1761	Roofing, siding, and sheet metal work-----	188	2 010	33 879	116 804	(D)	70 016	41 001	(D)	1 453	9	(D)
1771	Concrete work -----	219	2 223	38 324	122 154	111 529	76 678	35 871	10 625	1 862	5	5
1781	Water well drilling -----	17	99	1 689	6 828	6 663	3 550	(D)	166	-	21	15
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	36	680	16 864	52 407	48 636	35 365	16 909	3 771	1 513	8	9
1793	Glass and glazing work-----	46	569	11 663	37 024	36 790	21 530	17 591	234	*51	9	9
1794	Excavation work-----	80	589	12 877	36 296	32 870	25 111	10 869	3 427	1 379	13	13
1795	Wrecking and demolition work-----	12	114	2 331	5 815	5 220	4 888	623	595	(D)	31	22
1796	Installing building equipment, n.e.c.-----	32	553	15 111	44 918	43 284	31 761	12 041	1 634	164	8	3
1799	Special trade contractors, n.e.c.-----	194	1 622	28 570	97 034	91 919	58 986	35 548	5 115	1 338	9	8
6552	Land subdividers and developers, n.e.c.-----	88	580	15 868	102 691	28 626	29 801	5 164	74 065	1 280	6	9



CONTENTS

Idaho

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings-----	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction -----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982-----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982 -----	6
4. Detailed Statistics: 1987 and Earlier Census Years -----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986 -----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982 -----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982 -----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987 -----	12
11. Selected Industry Ratios in This State: 1987 -----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	--

--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Idaho. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 10,370 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$2.3 billion in total value of business done.

Most of the 10,370 construction establishments were small. Of the total, 8,278 were nonemployers, and over half of the employer establishments had less than 5 employees. The 694 construction establishments with 5 employees or more, while representing only 7 percent of all establishments, accounted for more than 68 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.0 billion on total dollar value of business done. Of this amount, \$1.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$958 million, leaving net value of construction work of \$765 million. In addition, these establishments paid out \$498 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value for 1987 was \$585 million. (See Introduction and appendixes for explanation of terms.)

There were 2,092 establishments with total payroll averaging 13,847 during the year. Total payroll for was \$278 million. Total hours worked by construction workers during the year were 16.0 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values shown in current dollars for the years specified have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 8,278 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$332 million. Most of these establishments, about 73 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. Selected Costs Per Dollar Value of Business Done

(Percent)

1987 
1982 

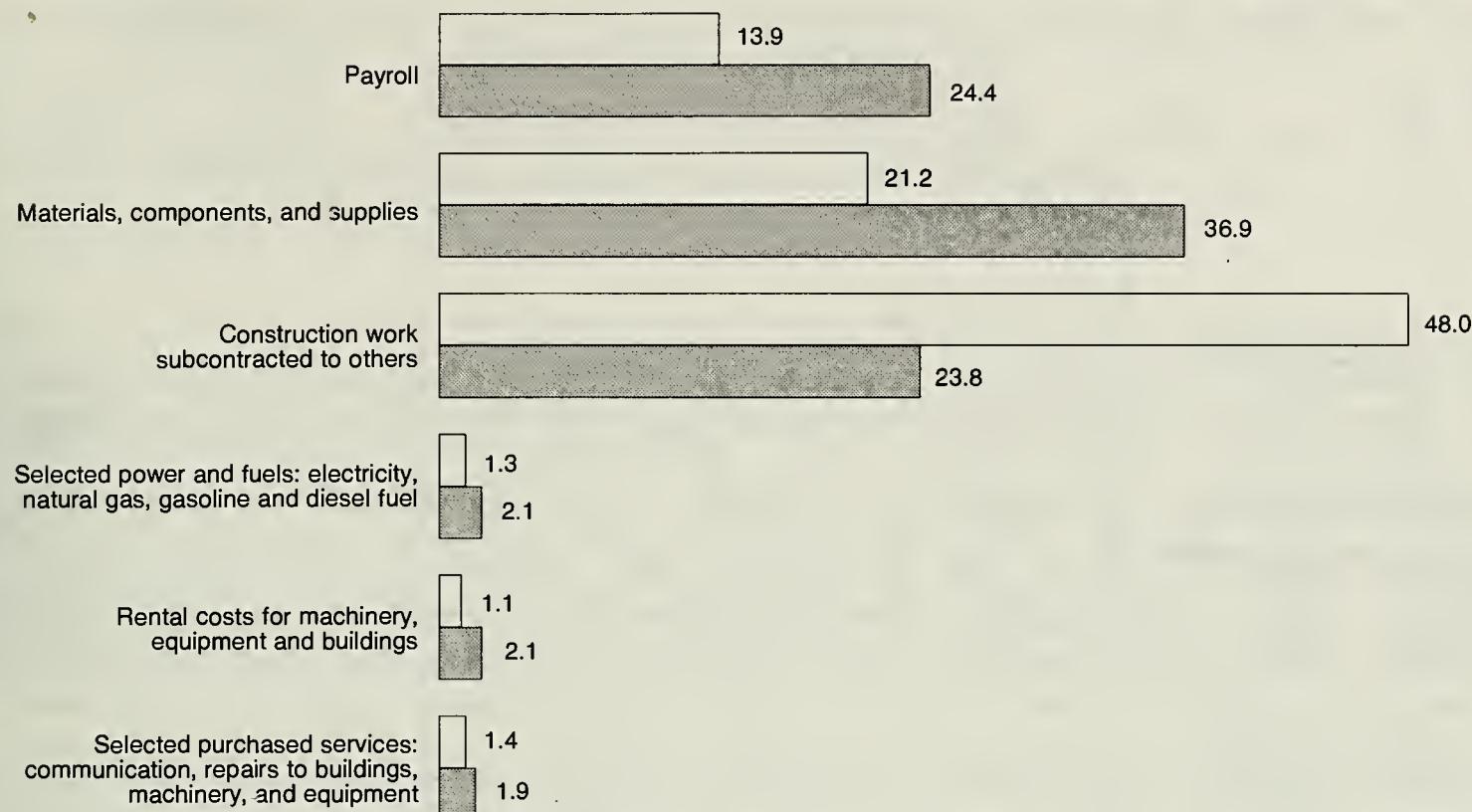


Figure 2. Value of Construction Work by Type of Construction

(Percent)

1987 
1982 

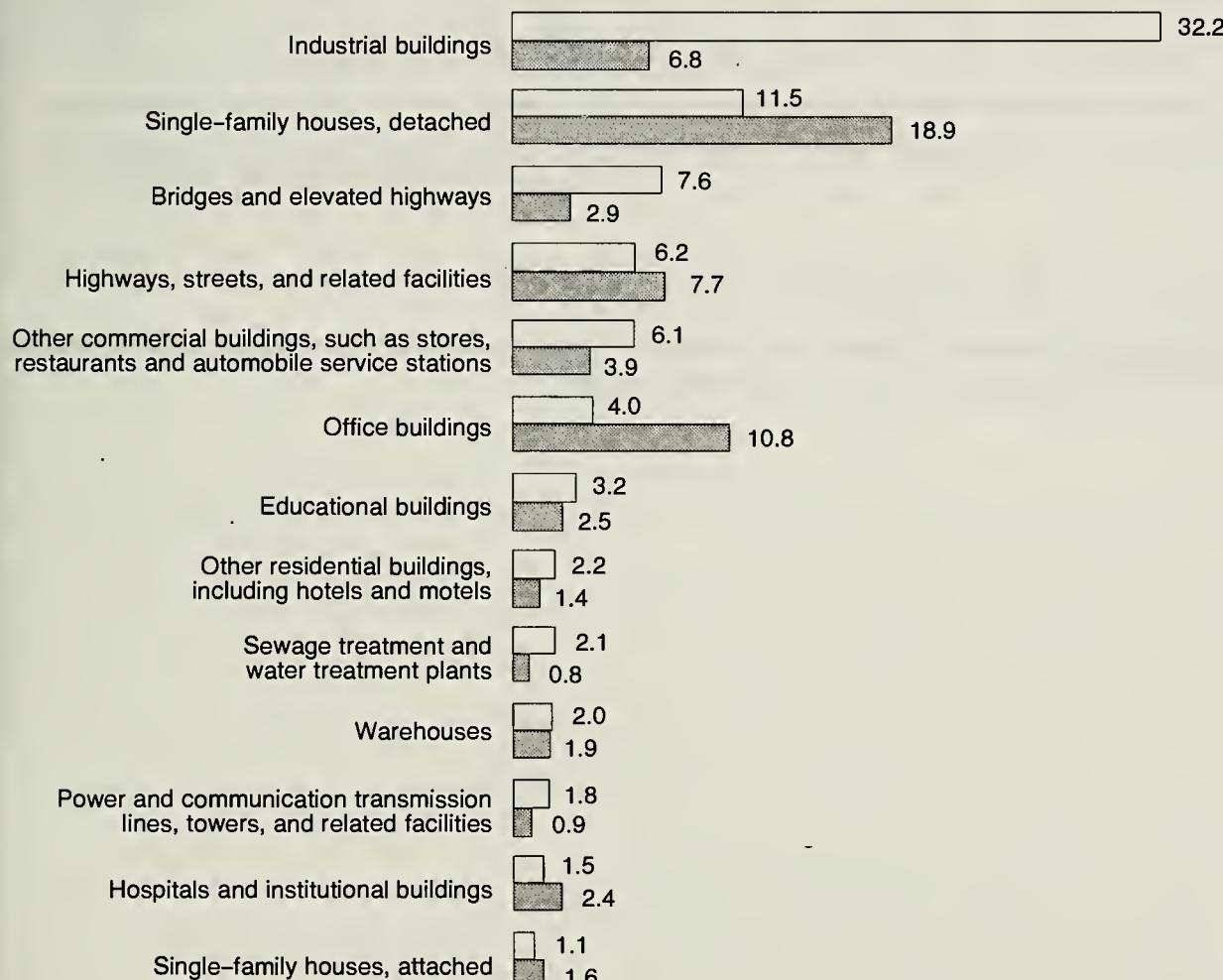


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll					Relative standard error of estimate (percent) for column—		
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹	J	K		
		A	B	C	D	E	F	G	H	I	J	K	J	K	J	K
	1987															
	Construction industries and land subdividers and developers -----	10 370	8 863	13 847	2 328 129	8 278	8 258	332 024	2 092	605	13 847	1 996 105	2	1		
15, 16, 17	Construction industries -----	10 120	8 657	13 776	2 300 585	8 061	8 054	306 545	2 059	603	13 776	1 994 040	2	1		
15	Building construction—General contractors and operative builders -----	2 334	1 834	4 727	1 409 886	1 806	1 741	121 540	528	93	4 727	1 288 346	3	2		
16	Heavy construction other than building construction— contractors-----	417	282	2 522	315 383	208	212	14 813	209	70	2 522	300 570	4	3		
17	Special trade contractors -----	7 369	6 541	6 527	575 317	6 047	6 101	170 193	1 322	440	6 527	405 124	1	5		
1711	Plumbing, heating, and air-conditioning --	626	440	1 657	137 985	333	331	17 848	293	109	1 657	120 137	5	5		
1731	Electrical work-----	695	530	1 116	80 972	477	477	16 213	218	53	1 116	64 759	7	10		
6552	Land subdividers and developers, n.e.c. ² -----	240	204	58	27 535	217	204	25 478	23	-	58	2 057	27	15		
	1982															
	Construction industries and land subdividers and developers -----	9 578	8 445	15 739	1 541 506	7 448	7 532	255 179	2 130	913	15 739	1 286 327	2	2		
15, 16, 17	Construction industries -----	9 390	8 263	15 659	1 518 760	7 296	7 370	236 921	2 094	893	15 659	1 281 839	2	2		
15	Building construction—General contractors and operative builders -----	2 445	2 110	3 680	509 696	1 866	1 862	102 501	579	248	3 680	407 195	5	4		
16	Heavy construction other than building construction— contractors-----	534	408	6 044	554 308	360	362	16 403	174	46	6 044	537 905	2	1		
17	Special trade contractors -----	6 411	5 745	5 935	454 756	5 070	5 146	110 017	1 341	599	5 935	336 739	4	5		
1711	Plumbing, heating, and air-conditioning --	592	390	1 680	134 031	314	317	17 625	278	73	1 680	116 406	8	10		
1731	Electrical work-----	676	577	933	68 745	474	479	13 380	202	98	933	55 365	9	8		
6552	Land subdividers and developers, n.e.c. ² -----	185	182	78	22 743	152	162	18 258	33	*20	78	4 485	22	21		

Note. Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—		
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²			
											J	J	K	
	A	B	C	D	E	F	G	H	I	J	K			
1987														
The State	10 370	8 863	13 847	2 328 129	8 278	8 258	332 024	2 092	605	13 847	1 996 105	2	1	
\$10,000,000 or more	10	—	2 586	—	—	—	—	10	—	2 586	—	(W)	—	
\$5,000,000 to \$9,999,999	13	—	562	(D)	—	—	—	13	—	562	(D)	(W)	(D)	
\$2,500,000 to \$4,999,999	55	2	1 311	(D)	2	2	(D)	53	—	1 311	(D)	6	(D)	
\$1,000,000 to \$2,499,999	187	39	2 618	1 642 187	23	18	39 994	164	*21	2 618	1 602 193	6	9	
\$500,000 to \$999,999	258	83	2 068	419 853	38	24	25 941	220	59	2 068	393 912	12	11	
\$250,000 to \$499,999	450	202	1 802	(D)	136	132	46 119	314	70	1 802	(D)	11	(D)	
\$100,000 to \$249,999	1 109	759	1 773	(D)	494	507	74 955	615	252	1 773	(D)	9	(D)	
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	816	829	57 807	(S)	(S)	(S)	(S)	(S)	(S)	
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	1 217	1 204	43 012	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000	5 691	5 583	154	(D)	5 552	5 542	44 195	139	*41	154	(D)	23	(D)	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 813	1 820	29 709	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 235	1 236	9 054	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	974	964	3 576	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	1 530	1 522	1 856	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982														
The State	9 578	8 445	15 739	1 541 506	7 448	7 532	255 179	2 130	913	15 739	1 286 327	2	2	
\$10,000,000 or more	10	—	5 068	(D)	—	—	—	10	—	5 068	(D)	(W)	(D)	
\$5,000,000 to \$9,999,999	12	4	483	(D)	1	—	(D)	11	4	483	(D)	(W)	(D)	
\$2,500,000 to \$4,999,999	35	8	1 092	(D)	3	4	(D)	32	4	1 092	(D)	(W)	(D)	
\$1,000,000 to \$2,499,999	143	19	2 309	988 984	13	17	42 025	130	2	2 309	946 959	6	2	
\$500,000 to \$999,999	205	65	1 764	139 263	28	29	18 417	177	36	1 764	120 846	10	8	
\$250,000 to \$499,999	348	182	1 635	120 541	82	77	27 227	266	105	1 635	93 314	9	10	
\$100,000 to \$249,999	884	616	1 915	136 966	336	348	49 828	548	268	1 915	87 138	9	8	
\$50,000 to \$99,999	992	830	763	70 003	620	641	42 959	372	189	763	27 044	12	10	
\$25,000 to \$49,999	1 197	1 125	293	42 115	992	1 016	34 696	205	109	293	7 419	15	13	
Less than \$25,000	5 749	5 595	416	43 633	5 373	5 400	40 027	376	195	416	3 606	11	9	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 729	1 745	26 843	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 226	1 224	8 265	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 353	1 366	3 854	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 065	1 065	1 065	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction Industries and land subdvlrs and developers	2 092	13 847	10 164	278 255	183 967	16 019	1 723 338	765 202
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	297	1 025	801	12 882	9 567	1 118	91 375	58 999
1522	Other residential buildings	*15	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	30	*132	*78	2 469	655	(S)	23 941	14 167
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	49	2 238	1 092	(D)	32 793	1 595	(D)	41 179
1542	Nonresidential buildings, n.e.c.	137	1 253	942	24 278	16 255	1 485	202 591	98 006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	64	1 060	879	25 226	19 682	1 527	107 029	83 957
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	8	155	123	3 999	3 287	236	19 087	15 607
1623	Water, sewer, and utility lines	67	591	489	10 646	8 237	769	35 480	31 897
1629	Heavy construction, n.e.c.	70	716	505	17 946	13 292	929	101 159	(D)
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	293	1 657	1 239	31 738	23 215	2 016	116 977	108 004
1721	Painting and paper hanging	84	224	194	3 064	2 674	207	8 146	7 619
1731	Electrical work	218	1 116	846	19 343	14 417	1 225	61 817	60 745
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	83	247	234	2 154	2 098	242	11 543	11 252
1742	Plastering, drywall, and insulation work	100	675	540	9 177	6 751	1 072	40 875	34 453
1743	Terrazzo, tile, marble, and mosaic work	*14	*93	*76	*1 376	*964	*65	4 462	*4 256
175	Carpentry and floor work:								
1751	Carpentry	106	297	253	3 439	2 977	473	16 062	15 059
1752	Floor laying and other floor work	22	*74	*58	863	642	*88	5 549	*4 852
1761	Roofing, siding, and sheet metal work	119	983	801	14 397	10 995	1 089	57 472	55 809
1771	Concrete work	119	385	344	5 359	4 784	517	22 063	21 225
1781	Water well drilling	*17	*64	*50	*910	*738	*102	2 693	*2 684
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	19	153	117	3 286	2 598	152	7 877	7 567
1793	Glass and glazing work	*18	84	54	1 344	948	83	6 439	6 379
1794	Excavation work	29	(S)	(S)	(S)	(S)	(D)	(D)	(S)
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	*23	(D)	62	(D)	(D)	153	6 135	5 813
1799	Special trade contractors, n.e.c.	56	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.	23	58	(D)	547	(D)	(D)	1 186	(D)

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts†	Value added††	B	H	M	
	I	J	K	L	M	N	O	P	Q	B	H	M
585 196	449 015	958 135	22 198	17 840	208 902	15 739	1 232 787	475 451	2	2	9	15, 16, 17
32 040 (S)	28 218 (D)	32 376 (S)	591 (S)	632 (S)	8 283 (D)	1 569 131	109 458 18 628	45 729 5 615	11 (S)	12 (S)	37 (S)	152 1521 1522
*5 171	9 139	*9 774	*110	(D)	*3 000	219	17 009	5 989	50	39	(D)	1531
134 661 51 386	116 857 49 798	104 584	5 054 1 303	743 1 314	*21 236 13 320	496 1 265	49 601 194 028	15 906 76 068	3 9	11 7	33 24	154 1541 1542
60 554	(D)	23 072	4 522	4 027	58 252	1 205	92 329	52 206	6	7	11	1611
10 029 22 939 50 969	9 841 28 784	3 480 3 583	1 319 1 258 2 432	442 *1 940 915	3 782 11 457 14 497	128 925 (D)	16 512 44 487 (D)	9 917 22 577 (D)	21 17 9	13 15 (D)	32 50 33	162 1622 1623 1629
60 991	50 172	8 973	1 445	1 609	18 228	1 680	110 891	58 611	5	5	22	1711
5 105	(D)	*527	*152	*206	*2 602	314	11 198	6 882	16	15	43	1721
35 589	28 097	1 072	524	1 030	9 530	933	53 770	30 707	7	7	34	1731
5 612 18 477 *2 962	5 640 17 675 *1 294	*290 *6 421 *206	21 *827 (S)	*1 128 -	*1 314 *4 931 (S)	334 339 *21	10 922 18 712 *509	4 952 7 892 *205	20 15 45	16 20 50	(S) 55 -	174 1741 1742 1743
8 757 *1 840	6 323 *3 100	1 003 *697	*329 75	(S) 38	*3 176 346	334 45	12 835 *5 563	7 095 *1 224	27 53	27 47	(S) (W)	175 1751 1752
27 576	(D)	1 663	352	710	9 403	501	27 892	15 625	15	13	19	1761
12 178	(D)	837	470	*606	6 131	342	16 519	7 773	8	6	44	1771
*2 362	*1 505	*9	(S)	*15	*9 709	84	3 270	1 829	48	41	66	1781
6 195 3 198 (S) (D) 3 167 (S)	1 999 4 357 (S) (D) (S)	*310 60 (D) (D)	*460 206 (S) (D)	*345 46 (S) (D)	*873 542 428	111 59 21 550	7 077 *4 342 15 813	2 210 *1 903 (S) (D)	34 2 (S) (D)	23 4 (S) (D)	62 4 1793	
911	(D)	(D)	11	-	*71	78	2 693	1 631	27 (D)	-	6552	1794 1795 1796 1799

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	2 092	2 130	2 751	1 974	2	4	5	6
Proprietors and working partners	605	913	1 894	1 508	9	7	7	8
All employees**	13 847	15 739	19 165	16 734	2	2	3	4
Construction workers:								
March	8 605	10 248	13 049	10 957	3	2	3	3
May	10 196	11 955	17 002	15 280	3	3	3	8
August	11 529	12 978	18 419	16 762	3	2	7	4
November	10 324	11 681	15 628	15 281	3	3	3	4
Average	10 164	11 949	16 039	14 775	2	2	3	5
Other employees:								
March	3 593	3 751	2 969	1 871	3	3	3	4
May	3 664	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
August	3 857	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
November	3 621	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Average	3 684	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	3 160	3 984	(NA)	(NA)	4	3	(NA)	(NA)
April to June	4 058	4 813	(NA)	(NA)	4	3	(NA)	(NA)
July to September	4 644	5 456	(NA)	(NA)	4	3	(NA)	(NA)
October to December	4 156	4 459	(NA)	(NA)	4	3	(NA)	(NA)
Total hours worked	16 019	18 713	(NA)	(NA)	3	2	(NA)	(NA)
Payroll, all employees	278 255	313 450	251 616	177 844	1	1	2	2
Payroll, construction workers	183 967	231 962	203 302	155 961	2	1	2	2
Payroll, other employees	94 287	81 487	48 314	21 883	2	2	2	2
First quarter payroll, all employees	58 945	65 171	50 728	(NA)	2	1	1	(NA)
Employer costs for fringe benefits, all employees	72 834	63 678	45 674	(NA)	2	2	2	(NA)
Legally required expenditures	52 389	49 014	28 118	(NA)	2	2	2	(NA)
Voluntary expenditures	20 445	14 664	17 556	(NA)	3	4	2	(NA)
Dollar value of business done	1 996 105	1 286 327	1 112 794	613 814	1	2	2	5
Value of construction work ¹	1 723 338	1 232 787	1 061 289	582 649	1	2	2	5
Value of construction work subcontracted in from others	276 677	194 409	209 893	88 594	7	24	(W)	(W)
Land receipts ²	(S)	3 186	(NA)	(NA)	5	(NA)	(NA)	3
Other business receipts	(S)	50 354	51 504	31 165	(S)	4	5	3
Net value of construction	765 202	927 323	814 188	481 335	2	2	2	5
Value added††	585 196	475 451	478 981	286 762	2	2	2	8
Selected costs	1 407 150	807 689	617 253	322 940	1	2	3	3
Materials, components, and supplies ³	423 332	474 919	351 354	221 626	3	2	4	3
Construction work subcontracted to others	958 135	305 463	247 101	101 314	1	2	3	5
Selected power, fuels, and lubricants	25 682	27 306	18 797	(NA)	2	3	2	(NA)
Electricity	6 071	3 189	1 702	(NA)	4	5	5	(NA)
Natural gas	1 114	792	986	(NA)	6	6	7	(NA)
Gasoline and diesel fuel	16 819	21 406	14 010	(NA)	3	3	2	(NA)
On highway use	11 520	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Off highway use	5 298	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	1 677	1 918	2 100	(NA)	9	7	7	(NA)
Rental cost for machinery, equipment, and buildings	22 198	26 871	21 638	(NA)	5	4	2	(NA)
For machinery and equipment	15 499	21 207	19 034	6 769	6	5	2	3
For buildings	6 698	5 664	2 604	(NA)	5	5	4	(NA)
Selected purchased services	27 186	23 854	22 694	(NA)	4	3	3	(NA)
Communication services	8 981	7 104	4 183	(NA)	4	3	7	(NA)
Repairs to buildings and other structures	1 283	812	829	(NA)	16	7	9	(NA)
Repairs to machinery and equipment	16 920	15 937	17 682	(NA)	5	3	3	(NA)
Ownership of construction projects:								
Value of construction work	1 723 338	1 232 787	1 061 289	582 649	1	2	2	5
Government owned	786 706	305 087	246 387	200 342	3	5	1	3
Federal	178 278	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
State and local	608 427	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	936 631	927 699	814 902	382 307	4	2	2	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	194 987	338 239	8	2
Capital expenditures, other than land	17 840	35 778	9	2
New	12 061	29 097	12	2
Used	5 778	6 681	14	7
Retirements and disposition of depreciable assets	3 925	10 766	13	8
End-of-year gross book value of depreciable assets	208 902	363 251	8	2
Depreciation charges during year	21 149	37 073	5	4
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	50 925	96 616	24	3
Capital expenditures, other than land	1 439	(D)	28	(D)
New buildings and other structures	510	(D)	29	(D)
Used buildings and other structures	928	1 102	39	9
Retirements and disposition of depreciable assets	228	996	21	27
End-of-year gross book value of depreciable assets	52 137	117 291	24	2
Depreciation charges during year	2 119	5 163	13	9
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	144 061	241 623	5	3
Capital expenditures, other than land	16 400	(D)	9	(D)
New machinery and equipment, including automobiles and trucks	11 550	(D)	12	(D)
New automobiles and trucks, intended primarily for highway use	6 769	4 318	15	7
Used machinery and equipment, including automobiles and trucks	4 849	5 579	13	8
Retirements and disposition of depreciable assets	3 697	9 770	13	7
End-of-year gross book value of depreciable assets	156 765	245 960	5	3
Depreciation charges during year	19 029	31 910	6	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	2 092	2
Value of construction work	1 723 338	1
Establishments with inventories:		
Number	855	7
Value of construction work	467 331	5
Inventories: ¹		
End of 1987, materials and supplies	16 688	9
End of 1986, materials and supplies	17 648	10
Establishments with no inventories:		
Number	912	7
Value of construction work	1 122 647	3
Establishments not reporting:		
Number	325	13
Value of construction work	133 360	12

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	2 092	(S)	377	219	77	17	3	—	—	1
All employees**	13 847	(S)	2 544	2 885	2 206	3 432	(D)	—	—	(D)
Payroll, all employees	278 255	(S)	36 713	54 221	49 814	102 715	(D)	—	—	(D)
Construction worker hours (thousands)	16 019	(S)	3 172	3 643	3 002	3 189	(D)	—	—	(D)
Dollar value business done	1 996 105	(S)	(D)	487 731	(D)	1 105 093	(D)	—	—	(D)
Value of construction work ¹	1 723 338	(S)	431 771	(D)	1 087 573	(D)	—	—	—	(D)
Net value of construction work ¹	765 202	(S)	138 197	184 456	159 040	112 202	(D)	—	—	(D)
Value added††	585 196	(S)	(D)	208 635	(D)	200 540	(D)	—	—	(D)
Cost of materials, components, supplies, and fuels	449 015	(S)	154 255	(D)	221 013	(D)	—	—	—	(D)
Cost of construction work subcontracted to others	958 135	(S)	109 117	(D)	816 331	(D)	—	—	—	(D)
Rental cost for machinery, equipment, and buildings	22 198	(S)	2 486	4 503	4 595	8 431	(D)	—	—	(D)
Capital expenditures, other than land	17 840	(S)	3 590	3 870	4 235	1 513	(D)	—	—	(D)
End-of-year gross book value of depreciable assets	208 902	(S)	52 332	45 194	39 108	30 163	(D)	—	—	(D)
1982										
All employees**	1 15 739	2 785	2 471	2 609	2 117	718	5 039	(D)	(D)	(D)
Value of construction work ¹	1 232 787	141 799	154 849	173 805	186 451	575 883	(D)	(D)	(D)	(D)
Value added††	475 451	65 464	75 249	80 102	77 621	38 157	138 856	(D)	(D)	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	(S)	10	8	5	(W)	(D)	—	—	(D)
Net value of construction work ¹	2	(S)	11	7	3	(W)	(D)	—	—	(D)
Capital expenditures, other than land	9	(S)	23	24	10	(W)	(D)	—	—	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	2 092	139	(S)	(S)	615	314	220	164	53	13	10
All employees**	13 847	154	(S)	(S)	1 773	1 802	2 068	2 618	1 311	562	2 586
Payroll, all employees	278 255	808	(S)	(S)	21 258	27 842	31 671	52 980	34 487	14 197	87 331
Construction worker hours (thousands)	16 019	114	(S)	(S)	2 064	2 600	2 436	3 280	1 759	755	2 098
Dollar value of business done	1 996 105	(D)	(S)	(S)	(D)	(D)	393 912	1 602 193	(D)	(D)	(D)
Value of construction work ¹	1 723 338	(D)	(S)	(S)	1 687 865	(D)	(D)	(D)	(D)	(D)	(D)
Net value of construction work ¹	765 202	(D)	(S)	(S)	598 033	(D)	(D)	(D)	(D)	133 966	(D)
Value added††	585 196	1 088	(S)	(S)	(D)	(D)	197 919	386 189	(D)	(D)	(D)
Cost of materials, components, supplies, and fuels	449 015	(D)	(S)	(S)	79 000	(D)	137 207	(D)	219 043	(D)	(D)
Cost of construction work subcontracted to others	958 135	(D)	(S)	(S)	(D)	(D)	87 061	(D)	847 233	(D)	(D)
Rental cost for machinery, equipment, and buildings	22 198	8	(S)	(S)	1 229	2 192	1 922	4 028	3 181	9 258	(D)
Capital expenditures, other than land	17 840	*3	(S)	(S)	3 430	3 424	1 003	3 930	2 879	990	1 516
End-of-year gross book value of depreciable assets	208 902	*361	(S)	(S)	29 631	31 715	18 707	51 296	35 436	7 202	27 437
1982											
All employees**	1 15 739	416	293	763	1 915	1 635	1 764	2 309	1 092	483	5 068
Value of construction work ¹	1 232 787	3 534	7 232	25 905	84 614	89 361	113 802	196 666	106 690	75 256	529 726
Value added††	475 451	1 750	3 754	13 624	43 185	43 654	56 126	88 805	45 890	178 660	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	23	(S)	(S)	9	11	12	6	6	(W)	(W)
Net value of construction work ¹	2	(D)	(S)	(S)	8	(D)	(D)	(D)	17	(W)	(D)
Capital expenditures, other than land	9	64	(S)	(S)	32	25	21	22	17	17	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	1 723 338	1 107 234	299 876	257 120	1	2	4	3
Building construction	1 173 119	718 577	218 993	232 408	2	3	5	2
Single-family houses	217 548	140 231	46 109	31 208	7	8	18	11
Single-family houses, detached	198 476	126 630	44 359	27 485	7	9	18	12
Single-family houses, attached	19 072	13 601	1 750	3 723	13	17	11	13
Apartment buildings with two or more apartments	13 884	7 915	4 422	1 546	15	26	6	16
Other residential buildings, including hotels and motels	38 638	31 546	4 126	2 965	30	36	8	19
Hotels and motels	30 886	*26 026	3 098	1 761	37	44	6	26
Other residential buildings, excluding hotels and motels	7 752	5 520	1 028	1 204	10	12	25	28
Office buildings	68 814	51 067	13 236	4 511	11	14	13	14
Other commercial buildings such as stores, restaurants, and automobile service stations	105 849	69 446	28 537	7 865	7	8	16	7
Industrial buildings and warehouses	589 183	(D)	84 417	(D)	1	(D)	3	(D)
Industrial buildings	554 696	(D)	77 015	(D)	1	(D)	2	(D)
Warehouses	34 487	25 760	7 402	1 324	15	20	13	25
Religious buildings	20 296	11 036	6 526	2 733	16	24	24	23
Educational buildings	55 853	42 683	11 387	1 782	10	10	33	21
Hospitals and institutional buildings	25 675	15 517	8 619	1 538	7	9	11	14
Farm buildings	13 959	11 438	1 125	1 394	9	10	22	20
Amusement, social, and recreational buildings	2 610	1 109	1 069	432	16	21	8	31
Other nonresidential buildings	17 662	7 421	9 415	825	15	28	15	7
Land development for buildings	*3 141	(NA)	(NA)	54	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	494 253	388 657	80 882	24 713	2	2	4	15
Highways, streets, and related facilities	106 754	44 955	56 657	5 142	6	12	4	8
Outdoor swimming pools	6 507	*6 339	(D)	48	49	(D)	(D)	(D)
Parking areas including private driveways	7 376	*4 616	1 038	*1 721	34	41	22	56
Fencing	*4 244	*3 877	*232	*134	49	50	65	50
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	4 870	2 928	583	*1 358	17	11	33	41
Bridges, tunnels, and elevated highways	130 584	130 066	*400	117	1	1	62	32
Conservation and development construction	5 771	3 095	460	*2 215	26	26	22	46
Power and communication transmission lines, towers, and related facilities	30 910	27 615	1 977	1 316	6	3	36	20
Sewers, water mains, and related facilities	22 417	15 259	*2 411	*4 745	13	11	49	41
Sewers, sewer lines, and related facilities	7 651	4 407	*1 808	*1 435	20	15	63	55
Water mains and related facilities	14 766	10 852	603	*3 310	16	12	33	53
Pipeline, other than sewer or water lines	*6 123	*5 039	(S)	*435	63	62	(S)	57
Heavy industrial facilities	35 811	(D)	6 756	(D)	5	(D)	4	(D)
Blast furnaces, petroleum refineries, and chemical complexes	13 933	(D)	4 362	(D)	(W)	(D)	(W)	(D)
Power plants	21 877	19 146	2 394	*338	8	9	12	55
Power plants, nuclear	2 943	*371	(D)	(D)	20	67	(D)	(D)
Power plants, except nuclear	18 934	18 775	(D)	(D)	9	9	(D)	(D)
Sewage treatment and water treatment plants	36 764	35 961	(D)	(D)	1	1	(D)	(D)
Earthmoving, nonbuilding	3 703	(D)	(D)	*1 276	23	(D)	(D)	67
Other nonbuilding construction	92 419	108 907	10 368	5 916	18	19	49	36
Construction work, n.s.k.	55 964	(NA)	(NA)	(NA)	12	(NA)	(NA)	(NA)
1982								
Value of construction work¹	1 232 787	1 036 621	(NA)	196 166	2	2	(NA)	3
Building construction	693 705	590 219	(NA)	103 486	2	2	(NA)	4
Single-family houses	253 769	210 515	(NA)	43 253	4	4	(NA)	6
Single-family houses, detached	233 386	200 173	(NA)	33 212	4	4	(NA)	7
Single-family houses, attached	20 383	10 342	(NA)	10 041	16	31	(NA)	4
Apartment buildings with two or more apartments	24 888	19 380	(NA)	5 508	13	15	(NA)	8
Other residential buildings, including hotels and motels	16 977	8 902	(NA)	8 075	19	8	(NA)	39
Office buildings	133 183	125 664	(NA)	7 519	4	4	(NA)	10
Other commercial buildings such as stores, restaurants, and automobile service stations	47 539	34 790	(NA)	12 749	7	9	(NA)	8
Industrial buildings and warehouses	107 055	92 752	(NA)	14 302	5	5	(NA)	10
Industrial buildings	83 442	70 536	(NA)	12 905	5	4	(NA)	11
Warehouses	23 612	22 215	(NA)	1 397	13	14	(NA)	12
Religious buildings	11 130	9 206	(NA)	1 923	25	31	(NA)	14
Educational buildings	31 300	26 588	(NA)	4 711	7	8	(NA)	12
Hospitals and institutional buildings	29 047	26 217	(NA)	2 830	10	11	(NA)	11
Farm buildings	19 104	17 363	(NA)	1 741	23	26	(NA)	26
Amusement, social, and recreational buildings	6 748	6 453	(NA)	295	33	35	(NA)	28
Other nonresidential buildings	12 960	12 386	(NA)	574	23	24	(NA)	30
Nonbuilding construction	472 527	392 162	(NA)	80 364	1	1	(NA)	4
Highways, streets, and related facilities	95 471	64 235	(NA)	31 236	5	5	(NA)	8
Bridges, tunnels, and elevated highways	35 370	28 918	(NA)	6 452	2	3	(NA)	(W)
Conservation and development construction	9 232	(D)	(NA)	(D)	27	(D)	(NA)	(D)
Power and communication transmission lines, towers, and related facilities	10 729	6 083	(NA)	4 646	13	16	(NA)	10
Sewers, water mains, and related facilities	31 850	27 839	(NA)	4 011	10	11	(NA)	8
Sewers, sewer lines, and related facilities	19 815	17 673	(NA)	2 141	13	15	(NA)	8
Water mains and related facilities	12 035	10 165	(NA)	1 869	12	14	(NA)	14
Heavy industrial facilities	157 395	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Sewage treatment and water treatment plants	10 366	9 033	(NA)	1 333	1	1	(NA)	1
Other nonbuilding construction	122 105	(D)	(NA)	3 (D)	3	(D)	(NA)	(D)
Construction work, n.s.k.	66 554	54 239	(NA)	12 315	7	8	(NA)	8

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	2 092	10 164	16 019	8 605	3 160	10 196	4 058
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	297	801	1 118	673	224	920	314
1522	Other residential buildings -----	*15	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders -----	30	*78	(S)	*56	(S)	*108	(S)
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	49	1 092	1 595	945	276	1 099	438
1542	Nonresidential buildings, n.e.c. -----	137	942	1 485	768	280	850	329
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	64	879	1 527	570	204	956	439
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	8	123	236	65	25	110	55
1623	Water, sewer, and utility lines -----	67	489	769	432	171	506	196
1629	Heavy construction, n.e.c. -----	70	505	929	369	145	412	186
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	293	1 239	2 016	1 198	480	1 296	530
1721	Painting and paper hanging -----	84	194	207	210	57	190	47
1731	Electrical work -----	218	846	1 225	843	297	799	302
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	83	234	242	125	35	281	83
1742	Plastering, drywall, and insulation work-----	100	540	1 072	481	247	564	291
1743	Terrazzo, tile, marble, and mosaic work -----	*14	*76	*65	*101	*19	*72	*11
175	Carpentry and floor work:							
1751	Carpentry -----	106	253	473	202	*86	229	*115
1752	Floor laying and other floor work -----	22	*58	*88	*55	*20	*61	*22
1761	Roofing, siding, and sheet metal work-----	119	801	1 089	683	220	766	248
1771	Concrete work -----	119	344	517	246	89	330	115
1781	Water well drilling -----	*17	*50	*102	*59	*21	*59	*27
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	19	117	152	92	23	79	*30
1793	Glass and glazing work -----	*18	54	83	45	18	46	19
1794	Excavation work -----	29	(S)	(D)	(S)	(D)	(S)	(S)
1795	Wrecking and demolition work -----	2	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	*23	62	153	60	36	61	37
1799	Special trade contractors, n.e.c. -----	56	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c. --	23	(D)	(D)	(D)	(D)	(D)	(D)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—											1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K		
H	I	J	K												
11 529	4 644	10 324	4 156	2	3	3	4	3	4	3	4	3	4	15, 16, 17	
														15	
872 (S)	319 (S)	739 (S)	259 (S)	10 (S)	15 (S)	11 (S)	17 (S)	13 (S)	16 (S)	11 (S)	16 (S)	10 (S)	16 (S)	152 1521 1522	
*75	(S)	*73	(S)	63	(S)	56	(S)	70	(S)	61	(S)	63	(S)	1531	
1 069 1 112	384 466	1 257 1 039	495 410	4 9	5 12	3 8	5 10	6 8	5 11	5 11	8 15	2 11	4 15	1541 1542	
														16	
1 158	523	834	360	7	6	6	7	6	7	7	8	9	6	1611	
														162 1622	
188 493 626	85 194 318	132 525 613	69 206 278	19 16 10	24 19 11	(W) 17 11	13 20 11	29 16 15	34 21 17	29 18 9	31 21 9	6 16 10	17 18 11	1623 1629	
														17	
1 323	549	1 138	456	5	7	5	7	5	7	6	8	6	8	1711	
212	52	162	*51	19	22	14	24	20	26	24	32	23	41	1721	
998	336	745	288	6	10	8	12	6	10	13	10	7	11	1731	
														174	
307 496 59	81 242 *16	221 621 *72	*42 290 *18	19 15 43	33 23 58	23 22 48	39 31 64	22 18 46	32 24 47	23 16 38	39 26 57	31 17 41	49 24 60	1741 1742 1743	
														175 1751 1752	
349 *69	156 *26	235 *49	114 *18	28 56	38 56	31 65	43 67	28 48	41 48	30 49	39 48	26 64	34 64	1761	
926	323	831	297	14	20	16	22	15	22	13	18	16	23	1771	
499	193	303	118	9	10	9	13	16	11	11	17	7	14		
*60	*30	*24	*23	42	51	48	46	48	53	47	55	54	48	1781	
107 63 (S) (D) 64 (S) (D)	*42 21 (S) (D) 39 (S) (D)	*189 62 (S) (D) 66 (S) (D)	*55 24 (W) (D) 39 (S) (D)	31 3 (W) (D) 33 (S) (D)	38 4 (W) (S) 36 (S) (D)	27 4 (S) (D) 34 (S) (D)	24 3 (D) (D) 38 (S) (D)	35 4 (S) (D) 34 (S) (D)	44 4 (S) (D) 37 (S) (D)	29 4 (S) (D) 32 (S) (D)	41 2 (S) (D) 36 (S) (D)	44 3 (S) (D) 31 (S) (D)	50 3 (S) (D) 35 (S) (D)	179 1793 1794 1795 1796 1799	
														6552	

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	6.6	20.1	1 576.1	169.6	.161	.261	.556	.013
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	3.5 (S)	12.6 (S)	1 395.8 (S)	114.1 (S)	.141 (S)	.309 (D)	.354 (S)	.006 (S)
1522	Other residential buildings								
1531	Operative builders	*4.4	*18.7	(S)	*306.9	.103	.382	*.408	*.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	45.7 9.1	(D) 19.4	1 460.6 1 576.4	(D) 215.1	(D) .120	(D) .246	(D) .516	(D) .006
1542	Nonresidential buildings, n.e.c.								
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	16.6	23.8	1 737.2	121.8	.236	(D)	.216	.042
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	19.4	25.8	1 918.7	155.2	.210	(D)	.182	.069
1623	Water, sewer, and utility lines	8.8	18.0	1 572.6	72.6	.300	.277	.101	.035
1629	Heavy construction, n.e.c.	10.2	25.1	1 839.6	200.3	.177	.285	(D)	.024
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	5.7	19.2	1 627.1	94.4	.271	.429	.077	.012
1721	Painting and paper hanging	2.7	13.7	1 067.0	42.0	.376	(D)	*.065	*.019
1731	Electrical work	5.1	17.3	1 448.0	73.1	.313	.455	.017	.008
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	3.0	8.7	1 034.2	49.3	.187	.489	*.025	.002
1742	Plastering, drywall, and insulation work	6.8	13.6	1 985.2	75.7	.225	.432	*.157	*.020
1743	Terrazzo, tile, marble, and mosaic work	*6.8	*14.8	*855.3	*58.7	*.308	*.290	*.046	(S)
175	Carpentry and floor work:								
1751	Carpentry	2.8	11.6	1 869.6	63.5	.214	.394	.062	.020
1752	Floor laying and other floor work	*3.4	*11.7	*1 517.2	*95.7	.156	*.559	*.126	.014
1761	Roofing, siding, and sheet metal work	8.3	14.6	1 359.6	71.8	.251	(D)	.029	.006
1771	Concrete work	3.2	13.9	1 502.9	64.1	.243	(D)	.038	.021
1781	Water well drilling	*3.8	*14.2	*2 040.0	*53.9	*.338	*.559	*.003	(S)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	8.1	21.5	1 299.1	67.3	.417	.254	*.039	*.058
1793	Glass and glazing work	*4.7	16.0	1 537.0	119.2	.209	.677	.009	.032
1794	Excavation work	(S)	(S)	(D)	(D)	(D)	(D)	(D)	(D)
1795	Wrecking and demolition work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	(D)	(D)	2 467.7	(D)	(D)	(D)	.052	.005
1799	Special trade contractors, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.	2.5	9.4	(D)	(D)	.461	(D)	(D)	.009

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

CONTENTS

Montana

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings.....	2
FIGURES	
1. Selected Costs Per Dollar Value of Business Done.....	3
2. Value of Construction Work by Type of Construction	3

TABLES	
Statistics for Establishments With and Without Payroll	
1. Summary Statistics: 1987 and 1982.....	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982.....	5

Statistics for Establishments With Payroll	
3. General Statistics by Industry: 1987 and 1982	6
4. Detailed Statistics: 1987 and Earlier Census Years	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982	9
6. Value of Inventories: 1987 and 1986	9
7. Selected Statistics by Employment Size Class: 1987 and 1982	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982	10
9. Value of Construction Work by Type of Construction: 1987 and 1982.....	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987	12
11. Selected Industry Ratios in This State: 1987	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987	--

--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Montana. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 8,807 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$1.2 billion in total value of business done.

Most of the 8,807 construction establishments were small. Of the total, 6,670 were nonemployers, and over half of the employer establishments had less than 5 employees. The 505 construction establishments with 5 employees or more, while representing only 6 percent of all establishments, accounted for more than 65 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$1.0 billion on total dollar value of business done. Of this amount, \$976 million were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$212 million, leaving net value of construction work of \$764 million. In addition, these establishments paid out \$337 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$508 billion. (See Introduction and appendices for explanation of terms.)

There were 2,137 establishments with total employment averaging 10,186 during the year. Total payroll for 1987 was \$193 million. Total hours worked by construction workers during the year were 11.9 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 6,670 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$227 million. Most of these establishments, about 70 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**

(Percent)

1987

1982

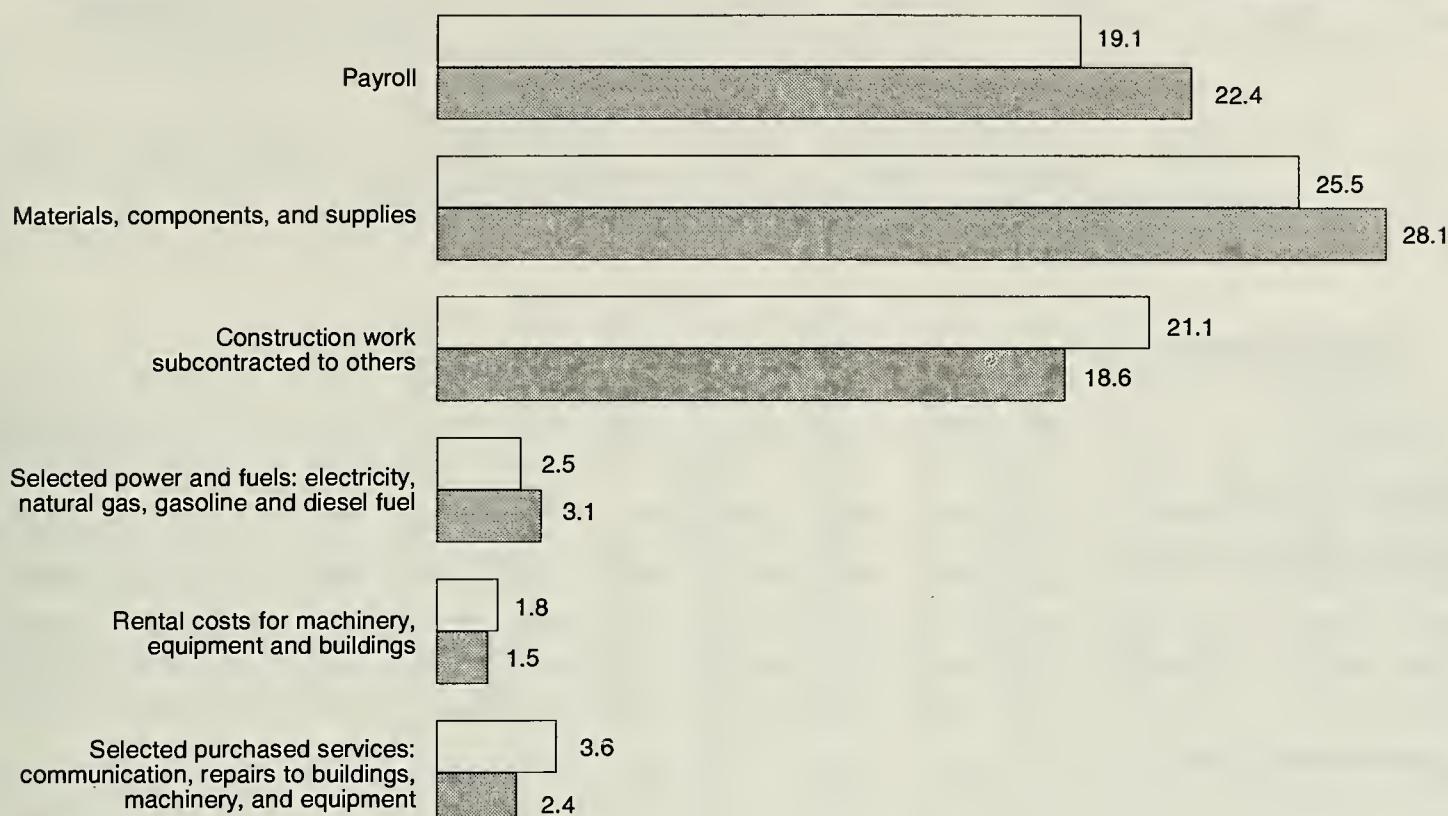


Figure 2. **Value of Construction Work by Type of Construction**

(Percent)

1987

1982

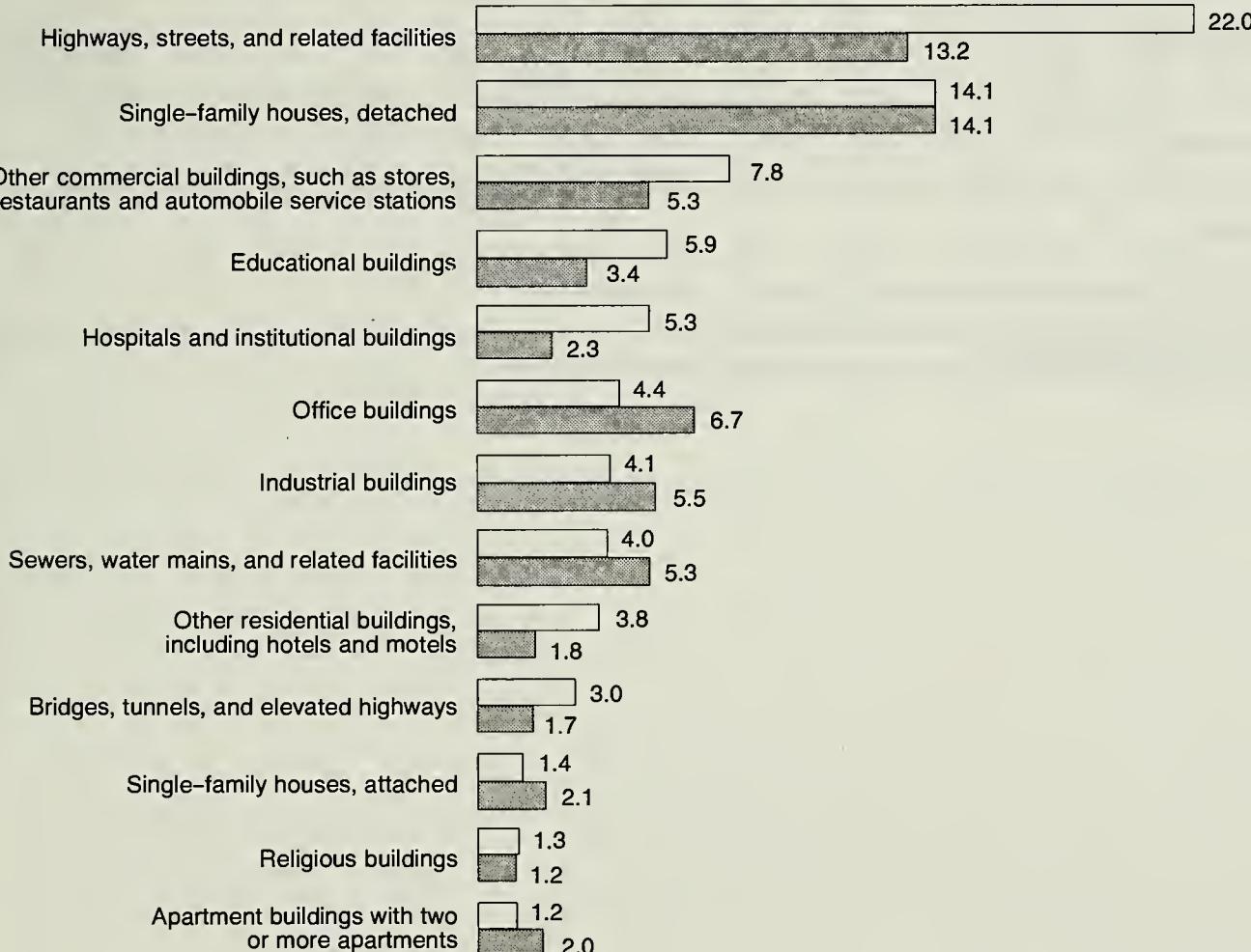


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹	K	J	K
		A	B	C	D	E	F	G	H	I	J	K	J	K	
	1987														
	Construction industries and land subdividers and developers	8 807	7 478	10 186	1 233 681	6 670	6 685	226 722	2 137	793	10 186	1 006 959	2	2	
15, 16, 17	Construction Industries	8 587	7 225	10 171	1 193 530	6 464	6 444	186 692	2 123	781	10 171	1 006 838	2	2	
15	Building construction—General contractors and operative builders	2 151	1 755	2 272	364 693	1 568	1 535	63 113	583	220	2 272	301 580	7	7	
16	Heavy construction other than building construction—contractors	549	306	3 395	429 850	221	210	15 765	328	96	3 395	414 085	3	2	
17	Special trade contractors	5 887	5 164	4 504	398 986	4 675	4 699	107 813	1 212	465	4 504	291 173	8	5	
1711	Plumbing, heating, and air-conditioning	544	392	1 041	89 932	303	303	13 155	241	89	1 041	76 777	7	5	
1731	Electrical work	467	345	756	56 214	295	292	10 059	172	53	756	46 155	6	5	
6552	Land subdividers and developers, n.e.c.²	211	(S)	(S)	(S)	206	241	40 030	*5	(S)	(S)	(S)	(S)	(S)	
	1982														
	Construction industries and land subdividers and developers	8 857	7 644	12 755	1 096 854	6 630	6 720	206 159	2 227	924	12 755	890 695	2	2	
15, 16, 17	Construction Industries	8 656	7 428	12 648	1 082 385	6 464	6 516	196 249	2 192	912	12 648	886 136	3	2	
15	Building construction—General contractors and operative builders	2 335	1 935	3 219	340 014	1 679	1 688	75 744	656	247	3 219	264 270	6	5	
16	Heavy construction other than building construction—contractors	536	372	3 938	327 259	305	309	11 584	231	63	3 938	315 675	3	3	
17	Special trade contractors	5 785	5 121	5 491	415 112	4 480	4 519	108 921	1 305	602	5 491	306 191	5	4	
1711	Plumbing, heating, and air-conditioning	498	341	1 046	92 334	262	262	13 902	236	79	1 046	78 432	9	8	
1731	Electrical work	449	344	964	64 979	259	258	8 895	190	86	964	56 084	12	9	
6552	Land subdividers and developers, n.e.c.²	196	213	(S)	(S)	166	204	9 910	30	(S)	(S)	(S)	(S)	(S)	

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll					Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²			
		A	B	C		E	F		H	I	J			
1987														
The State -----	8 807	7 478	10 186	1 233 681	6 670	6 685	226 722	2 137	793	10 186	1 006 959	2	2	
\$10,000,000 or more -----	10	2	1 345	(D)	1	2	(D)	9	—	1 345	268 701	(W)	(W)	
\$5,000,000 to \$9,999,999 -----	18	1	824	(D)	1	1	(D)	17	—	824	116 721	(W)	(W)	
\$2,500,000 to \$4,999,999 -----	36	1	1 019	(D)	1	1	(D)	35	—	1 019	115 222	5	8	
\$1,000,000 to \$2,499,999 -----	106	17	1 514	703 491	4	1	34 189	102	*16	1 514	168 658	9	11	
\$500,000 to \$999,999 -----	163	34	1 286	113 448	23	22	15 148	140	*12	1 286	98 300	12	13	
\$250,000 to \$499,999 -----	350	149	1 445	122 931	62	65	21 941	288	84	1 445	100 990	13	12	
\$100,000 to \$249,999 -----	870	552	1 485	133 951	299	303	44 405	571	249	1 485	89 546	9	8	
\$50,000 to \$99,999 -----	1 121	873	818	79 421	601	600	41 625	520	273	818	37 796	11	9	
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	967	982	34 144	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000 -----	(S)	(S)	(S)	(S)	4 711	4 708	35 271	(S)	(S)	(S)	(S)	(S)	(S)	
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 411	1 422	22 961	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 010	1 005	7 408	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	881	876	3 211	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	1 409	1 405	1 692	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982														
The State -----	8 857	7 644	12 755	1 096 854	6 630	6 720	206 159	2 227	924	12 755	890 695	2	2	
\$10,000,000 or more -----	8	—	1 951	(D)	—	—	—	8	—	1 951	(D)	(W)	(D)	
\$5,000,000 to \$9,999,999 -----	16	2	848	(D)	1	—	(D)	15	2	848	283 217	(W)	(W)	
\$2,500,000 to \$4,999,999 -----	27	3	906	(D)	2	2	(D)	25	1	906	(D)	(W)	(D)	
\$1,000,000 to \$2,499,999 -----	115	20	2 076	570 104	10	11	30 233	105	9	2 076	256 654	5	4	
\$500,000 to \$999,999 -----	212	45	1 729	149 040	20	22	14 108	192	*23	1 729	134 932	8	10	
\$250,000 to \$499,999 -----	320	127	1 713	105 718	54	50	17 175	266	77	1 713	88 543	12	10	
\$100,000 to \$249,999 -----	797	581	1 695	119 606	284	308	42 247	513	273	1 695	77 359	8	8	
\$50,000 to \$99,999 -----	1 030	806	1 026	73 501	563	596	39 110	467	210	1 026	34 391	14	9	
\$25,000 to \$49,999 -----	1 117	997	446	39 684	815	840	28 345	302	157	446	11 339	12	12	
Less than \$25,000 -----	5 212	5 060	362	39 199	4 881	4 891	34 941	331	169	362	4 258	9	11	
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 445	1 453	22 642	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 141	1 140	7 656	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 270	1 277	3 618	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	1 025	1 021	1 025	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987								
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†	
			All	Construction workers	All employees	Construction workers				
		A	B	C	D	E	F	G	H	
	Construction Industries and land subdividers and developers	2 137	10 186	7 974	192 743	140 231	11 871	975 525	763 533	
15, 16, 17	Construction Industries:									
15	Building construction—General contractors and operative builders:									
152	General contractors, residential buildings:									
1521	Single-family houses	355	815	678	10 734	8 610	739	63 289	47 518	
1522	Other residential buildings	28	160	121	3 160	1 922	163	32 855	16 078	
1531	Operative builders	20	111	60	2 369	1 025	163	27 657	12 300	
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	*21	*168	*122	3 007	2 091	*114	25 765	11 835	
1542	Nonresidential buildings, n.e.c.	159	1 018	740	18 544	13 004	941	141 287	71 480	
16	Heavy construction other than building construction—contractors:									
1611	Highway and street construction	87	1 616	1 361	37 069	27 843	2 214	199 781	172 713	
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	*13	112	98	2 147	1 813	*121	7 460	6 705	
1623	Water, sewer, and utility lines	57	662	510	15 699	11 426	842	56 186	49 920	
1629	Heavy construction, n.e.c.	171	1 005	816	26 238	16 755	1 338	143 278	123 540	
17	Special trade contractors:									
1711	Plumbing, heating, and air-conditioning	241	1 041	730	20 040	14 311	1 216	73 898	64 306	
1721	Painting and paper hanging	87	151	115	1 843	1 353	120	6 462	6 110	
1731	Electrical work	172	756	560	14 989	11 425	892	44 169	43 051	
174	Masonry, stonework, tile setting, and plastering:									
1741	Masonry, stone setting, and other stonework	68	191	163	2 424	2 171	189	9 622	9 488	
1742	Plastering, drywall, and insulation work	42	131	109	1 389	1 138	107	5 348	5 115	
1743	Terrazzo, tile, marble, and mosaic work	*10	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
175	Carpentry and floor work:									
1751	Carpentry	165	455	389	6 314	4 965	534	37 326	25 886	
1752	Floor laying and other floor work	*32	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1761	Roofing, siding, and sheet metal work	62	356	269	6 498	4 727	380	27 697	26 533	
1771	Concrete work	90	188	174	1 935	1 663	309	8 167	8 087	
1781	Water well drilling	45	155	114	2 165	1 550	136	8 494	8 344	
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	*5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
1793	Glass and glazing work	*17	75	47	1 469	991	72	(D)	4 486	
1794	Excavation work	66	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1795	Wrecking and demolition work	8	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1796	Installing building equipment, n.e.c.	*17	84	70	2 090	1 680	84	7 699	7 528	
1799	Special trade contractors, n.e.c.	85	474	365	6 917	5 608	695	21 430	21 070	
6552	Land subdividers and developers, n.e.c.		*5	(S)	(S)	(S)	(S)	(S)	(S)	

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts ¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
507 705	282 271	211 991	18 440	19 948	238 232	12 755	864 533	443 360	2	2	6	15, 16, 17
												15
26 983 *9 678	21 653 8 123	15 770 16 777	474 59	1 221 46	12 111 (D)	1 369 112	77 374 8 739	34 070 4 496	11 27	13 31	30 25	152 1521 1522
5 340	7 192	15 356	*85	(S)	*3 642	210	16 164	9 225	31	32	(S)	1531
6 672 40 056	34 (D) 34 038	13 929 69 807	(S) 990	(S) 536	8 (D) 835	1 232 1 296	35 231 119 246	10 212 37 941	42 15	27 14	(S) 35	154 1541 1542
												16
135 273	40 253	27 068	5 847	7 386	89 246	1 523	140 773	86 011	5	4	10	1611
4 929 34 282 83 946	(D) 18 514 41 229	*755 6 266 19 737	*114 1 676 3 899	*78 1 476 2 404	*1 521 29 898 36 753	(D) 756 1 404	(D) 54 147 80 137	(D) 30 843 52 958	34 6	33 9	60 9	1622 1623 1629
												17
38 946	28 239	9 592	1 235	1 069	13 269	1 046	75 221	34 035	7	6	33	1711
5 010	(D)	352	44	*455	*1 725	380	9 295	6 729	21	17	56	1721
27 956	17 081	1 117	499	*1 005	8 393	964	53 639	31 860	6	6	52	1731
5 538 3 737 (S)	3 958 (D) (D)	*133 *233 (S)	*173 *22 (S)	(D) — (S)	*980 *1 054 *48	277 157 *1 226	10 106 9 521 *660	6 151 4 955 —	20 33 (S)	15 25 (S)	(D) — (S)	174 1741 1742 1743
16 548 (S)	9 511 (S)	11 439 (S)	114 (S)	92 (S)	6 071 (S)	545 (D)	25 090 2 513	11 714 1 365	10 (S)	9 (S)	18 1751 1752	175
14 986	(D)	1 163	287	*247	2 401	393	24 877	13 866	8	8	55	1761
4 955	3 132	*79	129	397	*2 881	340	15 394	7 659	21	27	39	1771
6 194	4 817	*150	(S)	*436	2 369	187	9 052	4 784	19	25	45	1781
(D) 2 848 (S) (S)	2 935 (D) (S)	(D) (S) (S)	(D) (S) (S)	(D) (S) (S)	(D) 561 (S)	160 *54 604	(D) *2 839 36 475	(D) *1 334 24 534	(D) 7	(D) (S) (S)	(D) — (S)	179 1791 1793
5 219 14 598	(D) 9 259	171 360	55 759	*1 342	4 823	249	11 389	(D) 7 514	24 17	21 17	(D) 46	1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	2 137	2 227	2 602	1 636	2	4	5	6
Proprietors and working partners	793	924	1 916	1 203	8	7	7	9
All employees**	10 186	12 755	15 691	10 353	2	2	3	4
Construction workers:								
March	6 564	8 283	10 636	6 206	3	3	4	4
May	8 092	10 147	14 487	9 443	3	3	3	4
August	9 302	12 287	15 977	11 214	2	3	3	4
November	7 939	10 251	13 991	8 926	3	3	4	5
Average	7 974	10 510	13 785	9 094	2	3	3	4
Other employees:								
March	2 137	2 205	1 732	1 128	4	5	6	6
May	2 202	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
August	2 284	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
November	2 223	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Average	2 212	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	2 253	3 246	(NA)	(NA)	3	3	(NA)	(NA)
April to June	3 071	4 008	(NA)	(NA)	3	4	(NA)	(NA)
July to September	3 646	4 958	(NA)	(NA)	3	3	(NA)	(NA)
October to December	2 900	4 097	(NA)	(NA)	3	3	(NA)	(NA)
Total hours worked	11 871	16 312	(NA)	(NA)	3	3	(NA)	(NA)
Payroll, all employees	192 743	199 589	175 385	91 122	2	2	3	3
Payroll, construction workers	140 231	160 709	149 055	76 881	2	2	4	3
Payroll, other employees	52 511	38 880	26 330	14 241	3	3	4	4
First quarter payroll, all employees	38 902	39 057	31 203	(NA)	3	2	3	(NA)
Employer costs for fringe benefits, all employees	48 252	34 906	34 444	(NA)	2	3	3	(NA)
Legally required expenditures	32 820	26 681	20 784	(NA)	2	3	3	(NA)
Voluntary expenditures	15 432	8 225	13 660	(NA)	3	3	4	(NA)
Dollar value of business done	1 006 959	890 695	818 535	370 008	2	2	3	3
Value of construction work ¹	975 525	864 533	785 195	358 856	2	2	3	4
Value of construction work subcontracted in from others	158 308	174 764	142 373	42 347	6	5	4	6
Land receipts ²	4 991	3 658	(NA)	(NA)	40	19	(NA)	(NA)
Other business receipts	26 443	22 503	33 339	11 152	13	8	27	6
Net value of construction†	763 533	698 776	637 781	295 237	2	2	3	4
Value added††	507 705	443 360	378 203	181 919	2	2	4	4
Selected costs								
Materials, components, and supplies ³	494 263	443 676	427 828	183 314	3	3	4	4
Construction work subcontracted to others	257 050	250 671	262 927	119 695	3	3	4	5
Selected power, fuels, and lubricants	211 991	165 757	147 414	63 619	5	3	4	4
Electricity	25 221	27 248	17 487	(NA)	2	4	3	(NA)
Natural gas	2 604	2 356	1 356	(NA)	6	6	9	(NA)
Gasoline and diesel fuel	698	1 105	886	(NA)	9	7	10	(NA)
On highway use	19 722	21 421	12 935	(NA)	2	4	3	(NA)
Off highway use	11 387	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	8 334	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
2 197	2 365	2 314	(NA)	5	8	9	(NA)	(NA)
Rental cost for machinery, equipment, and buildings	18 440	13 008	12 924	(NA)	7	3	5	(NA)
For machinery and equipment	13 764	10 006	10 227	7 858	7	4	4	5
For buildings	4 676	3 001	2 697	(NA)	9	6	16	(NA)
Selected purchased services	36 478	21 712	22 864	(NA)	2	5	2	(NA)
Communication services	4 624	3 854	3 098	(NA)	4	5	5	(NA)
Repairs to buildings and other structures	1 092	1 726	1 015	(NA)	12	5	9	(NA)
Repairs to machinery and equipment	30 761	16 131	18 752	(NA)	2	5	2	(NA)
Ownership of construction projects:								
Value of construction work	975 525	864 533	785 195	358 856	2	2	3	4
Government owned	466 814	296 637	262 683	177 366	3	5	2	3
Federal	123 957	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
State and local	342 856	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	508 710	567 896	522 513	181 490	6	4	4	6

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	229 803	286 216	4	3
Capital expenditures, other than land	19 948	20 718	6	7
New	11 938	10 600	8	6
Used	8 010	10 118	9	10
Retirements and disposition of depreciable assets	11 520	17 227	30	5
End-of-year gross book value of depreciable assets	238 232	289 707	4	5
Depreciation charges during year	26 598	34 834	4	5
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	30 555	43 249	10	7
Capital expenditures, other than land	2 326	2 203	22	20
New buildings and other structures	1 218	1 282	35	8
Used buildings and other structures	1 108	*921	21	49
Retirements and disposition of depreciable assets	*1 078	2 609	50	21
End-of-year gross book value of depreciable assets	31 803	42 843	10	7
Depreciation charges during year	3 362	3 245	12	9
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	199 248	242 967	4	4
Capital expenditures, other than land	17 622	18 514	6	5
New machinery and equipment, including automobiles and trucks	10 720	9 312	7	7
New automobiles and trucks, intended primarily for highway use	4 854	3 646	10	9
Used machinery and equipment, including automobiles and trucks	6 901	9 196	9	9
Retirements and disposition of depreciable assets	10 441	14 618	31	4
End-of-year gross book value of depreciable assets	206 429	246 863	4	4
Depreciation charges during year	23 235	31 589	5	5

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	2 137	2
Value of construction work	975 525	2
Establishments with inventories:		
Number	832	7
Value of construction work	506 191	4
Inventories ¹ :		
End of 1987, materials and supplies	17 913	10
End of 1986, materials and supplies	15 246	9
Establishments with no inventories:		
Number	1 025	6
Value of construction work	253 953	10
Establishments not reporting:		
Number	280	15
Value of construction work	215 381	5

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	2 137	(S)	295	137	57	10	4	2	-	-	-
All employees**	10 186	(S)	1 812	1 906	1 724	589	1 344	(D)	-	-	-
Payroll, all employees	192 743	(S)	31 025	38 771	44 448	13 564	33 848	(D)	-	-	-
Construction worker hours (thousands)	11 871	(S)	1 791	2 255	2 267	776	1 845	(D)	-	-	-
Dollar value business done	1 006 959	(S)	133 319	170 607	212 679	60 181	222 682	(D)	-	-	-
Value of construction work ¹	975 525	(S)	124 736	165 163	205 001	281 834	(D)	(D)	-	-	-
Net value of construction work†	763 533	(S)	93 680	125 801	143 383	48 566	185 717	(D)	-	-	-
Value added††	507 705	(S)	62 161	77 216	89 279	36 084	141 282	(D)	-	-	-
Cost of materials, components, supplies, and fuels	282 271	(S)	38 878	53 125	61 781	57 946	(D)	(D)	-	-	-
Cost of construction work subcontracted to others	211 991	(S)	31 056	39 362	61 618	47 551	(D)	(D)	-	-	-
Rental cost for machinery, equipment, and buildings	18 440	(S)	1 594	3 799	4 951	923	4 458	(D)	-	-	-
Capital expenditures, other than land	19 948	(S)	1 622	3 981	4 903	2 223	3 453	(D)	-	-	-
End-of-year gross book value of depreciable assets	238 232	(S)	24 092	43 123	63 947	61 578	(D)	(D)	-	-	-
1982											
All employees**	12 755	3 044	2 268	2 043	2 577	1 139	1 684	-	(D)	-	-
Value of construction work ¹	864 533	157 667	129 544	132 840	195 299	117 734	131 449	-	(D)	-	-
Value added††	443 360	79 812	69 051	61 065	97 946	58 015	77 469	-	(D)	-	-
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	11	9	2	(W)	(W)	(D)	-	-	-
Net value of construction work†	2	(S)	11	10	1	(W)	(W)	(D)	-	-	-
Capital expenditures, other than land	6	(S)	27	21	13	(W)	34	(D)	-	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—										\$10,000,000 or more
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999		
1987												
Number of establishments	2 137	(S)	(S)	520	571	288	140	102	35	17	9	
All employees**	10 186	(S)	(S)	818	1 485	1 445	1 286	1 514	1 019	824	1 345	
Payroll, all employees	192 743	(S)	(S)	8 280	18 592	22 079	23 648	33 959	27 014	21 520	34 941	
Construction worker hours (thousands)	11 871	(S)	(S)	829	1 548	1 331	1 351	1 740	1 711	1 198	1 724	
Dollar value of business done	1 006 959	(S)	(S)	37 796	89 546	100 990	98 300	168 658	115 222	116 721	268 701	
Value of construction work ¹	975 525	(S)	(S)	36 923	86 906	98 004	90 053	159 723	110 244	115 228	267 629	
Net value of construction work†	763 533	(S)	(S)	34 719	80 780	78 442	80 156	117 515	81 688	83 388	196 706	
Value added††	507 705	(S)	(S)	20 306	52 276	46 200	60 048	71 804	51 238	52 741	146 534	
Cost of materials, components, supplies, and fuels	282 271	(S)	(S)	(D)	(D)	81 579	28 354	50 507	34 697	32 140	51 244	
Cost of construction work subcontracted to others	211 991	(S)	(S)	2 204	6 126	19 562	9 897	42 207	28 556	31 840	70 923	
Rental cost for machinery, equipment, and buildings	18 440	(S)	(S)	514	1 174	1 448	1 952	2 985	3 279	2 362	4 490	
Capital expenditures, other than land	19 948	(S)	(S)	1 172	1 469	1 387	1 478	3 922	2 520	7 553	(D)	
End-of-year gross book value of depreciable assets	238 232	(S)	(S)	12 467	22 873	13 025	26 051	40 106	40 137	79 763	(D)	
1982												
All employees**	12 755	362	446	1 026	1 695	1 713	1 729	2 076	906	848	1 951	
Value of construction work ¹	864 533	4 204	10 932	33 598	74 852	85 507	130 164	159 883	87 860	103 252	174 281	
Value added††	443 360	2 086	6 062	17 509	41 380	46 305	59 695	83 143	43 663	52 046	91 468	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)												
All employees**	2	(S)	(S)	11	9	13	12	9	5	(W)	(W)	
Net value of construction work†	2	(S)	(S)	9	9	12	12	9	7	(W)	(W)	
Capital expenditures, other than land	6	(S)	(S)	27	29	31	24	22	16	16	(D)	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	975 525	620 228	230 254	84 208	2	3	4	5
Building construction								
Single-family houses	512 334	332 371	129 544	50 348	4	5	5	7
Single-family houses, detached	151 745	100 427	32 704	18 613	8	11	15	11
Single-family houses, attached	137 652	88 462	31 631	17 558	9	11	15	11
Apartment buildings with two or more apartments	14 093	11 965	1 073	1 055	28	32	50	18
Other residential buildings, including hotels and motels	12 068	9 022	1 043	2 001	10	8	29	19
Hotels and motels	37 040	22 306	12 469	2 264	16	27	6	17
Other residential buildings, excluding hotels and motels	19 902	16 080	2 441	1 381	29	35	10	20
Office buildings	17 138	6 226	10 028	883	12	30	7	30
Other commercial buildings such as stores, restaurants, and automobile service stations	43 378	26 086	12 435	4 856	10	15	14	12
Industrial buildings and warehouses	76 088	49 717	20 244	6 125	17	25	10	21
Industrial buildings	50 490	22 423	20 489	7 577	8	14	5	27
Warehouses	40 126	15 475	18 072	6 578	9	16	5	31
Religious buildings	10 364	6 948	2 417	*999	13	18	14	40
Educational buildings	12 985	6 924	4 344	1 716	18	32	12	22
Hospitals and institutional buildings	57 561	47 510	7 324	2 726	4	3	13	18
Farm buildings	52 037	36 871	13 360	1 805	7	9	12	7
Amusement, social, and recreational buildings	3 529	2 362	225	941	29	38	34	30
Other nonresidential buildings	6 880	4 186	*1 167	1 526	23	32	52	26
Land development for buildings	8 457	4 531	*3 734	191	21	18	41	21
	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	422 426	287 856	100 709	33 860	3	2	7	9
Highways, streets, and related facilities	214 812	139 637	63 959	11 215	3	2	9	15
Parking areas including private driveways	2 153	1 430	*215	*507	33	25	58	74
Fencing	*6 564	*4 923	(S)	*1 319	40	42	(S)	69
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	4 024	*2 722	*552	*750	35	42	57	74
Bridges, tunnels, and elevated highways	28 886	(D)	(D)	801	7	(D)	(D)	14
Dam and reservoir construction	22 893	(D)	(D)	1 620	8	(D)	(D)	8
Conservation and development construction	6 922	4 047	2 747	(S)	10	11	12	(S)
Power and communication transmission lines, towers, and related facilities	11 006	5 016	2 516	3 473	9	12	11	10
Sewers, water mains, and related facilities	39 483	33 029	3 352	*3 100	13	13	18	43
Sewers, sewer lines, and related facilities	18 127	14 474	2 255	1 397	7	4	22	35
Water mains and related facilities	21 356	18 555	1 097	*1 703	22	23	28	53
Sewage treatment and water treatment plants	40 392	37 531	2 850	(S)	1	(W)	11	(S)
Oilfields	3 167	1 966	652	*547	16	14	13	49
Other nonbuilding construction	42 124	57 555	23 866	10 274	18	21	22	36
Construction work, n.s.k.	40 764	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
1982								
Value of construction work¹	864 533	722 704	(NA)	141 829	2	2	(NA)	4
Building construction								
Single-family houses	432 621	370 166	(NA)	62 454	3	3	(NA)	5
Single-family houses, detached	140 252	113 286	(NA)	26 965	6	6	(NA)	7
Single-family houses, attached	121 996	97 049	(NA)	24 946	6	7	(NA)	7
Apartment buildings with two or more apartments	18 255	16 236	(NA)	2 019	11	11	(NA)	31
Other residential buildings, including hotels and motels	17 189	13 859	(NA)	3 329	15	18	(NA)	16
Office buildings	15 685	13 897	(NA)	1 788	6	7	(NA)	14
Other commercial buildings such as stores, restaurants, and automobile service stations	58 255	51 192	(NA)	7 063	5	6	(NA)	6
Industrial buildings and warehouses	45 782	38 705	(NA)	7 076	7	8	(NA)	10
Industrial buildings	59 922	54 015	(NA)	5 906	5	6	(NA)	8
Warehouses	48 008	43 417	(NA)	4 590	6	7	(NA)	10
Religious buildings	11 914	10 597	(NA)	1 316	12	13	(NA)	11
Educational buildings	10 784	9 730	(NA)	1 054	28	31	(NA)	21
Hospitals and institutional buildings	29 300	25 395	(NA)	3 905	11	11	(NA)	26
Farm buildings	19 800	16 399	(NA)	3 400	9	9	(NA)	29
Other nonresidential buildings	14 282	*13 391	(NA)	891	38	41	(NA)	19
	21 365	20 292	(NA)	1 071	2	2	(NA)	21
Nonbuilding construction	307 611	249 721	(NA)	57 889	3	3	(NA)	5
Highways, streets, and related facilities	114 455	78 842	(NA)	35 613	6	6	(NA)	8
Bridges, tunnels, and elevated highways	14 539	14 474	(NA)	*65	4	4	(NA)	49
Conservation and development construction	5 958	5 313	(NA)	644	16	18	(NA)	16
Power and communication transmission lines, towers, and related facilities	21 621	16 729	(NA)	4 891	15	19	(NA)	16
Sewers, water mains, and related facilities	45 780	38 715	(NA)	7 065	7	7	(NA)	6
Sewers, sewer lines, and related facilities	24 339	19 987	(NA)	4 352	9	10	(NA)	7
Water mains and related facilities	21 440	18 727	(NA)	2 712	9	9	(NA)	10
Pipeline, other than sewer or water lines	13 781	12 358	(NA)	1 422	10	11	(NA)	12
Heavy industrial facilities	22 816	21 443	(NA)	1 373	10	9	(NA)	19
Blast furnaces, petroleum refineries, and chemical complexes	2 186	*1 324	(NA)	861	35	48	(NA)	16
Power plants	20 630	20 118	(NA)	511	10	9	(NA)	39
Sewage treatment and water treatment plants	8 892	7 623	(NA)	1 268	11	12	(NA)	8
Water treatment plants	5 769	(D)	(NA)	(D)	17	(D)	(NA)	(D)
	3 123	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Oilfields	7 174	6 743	(NA)	430	14	15	(NA)	(W)
Other nonbuilding construction	52 590	47 475	(NA)	5 111	1	6	(NA)	18

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					D	E	F	G
	A	B	C					
	Construction industries and land subdividers and developers -----	2 137	7 974	11 871	6 564	2 253	8 092	3 071
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	355	678	739	588	170	702	186
1522	Other residential buildings -----	28	121	163	127	47	125	42
1531	Operative builders -----	20	60	163	60	42	63	41
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	*21	*122	*114	*121	*17	*126	*26
1542	Nonresidential buildings, n.e.c. -----	159	740	941	698	220	668	222
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	87	1 361	2 214	831	282	1 507	630
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	*13	98	*121	*62	*15	109	*29
1623	Water, sewer, and utility lines -----	57	510	842	330	155	551	228
1629	Heavy construction, n.e.c. -----	171	816	1 338	753	275	923	369
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	241	730	1 216	697	252	756	320
1721	Painting and paper hanging -----	87	115	120	89	17	149	43
1731	Electrical work -----	172	560	892	646	223	539	233
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	68	163	189	138	39	144	47
1742	Plastering, drywall, and insulation work -----	42	109	107	86	21	116	22
1743	Terrazzo, tile, marble, and mosaic work -----	*10	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:							
1751	Carpentry -----	165	389	534	262	98	420	136
1752	Floor laying and other floor work -----	*32	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	62	269	380	230	62	220	84
1771	Concrete work -----	90	174	309	88	34	144	97
1781	Water well drilling -----	45	114	136	103	26	113	30
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	*5	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work -----	*17	47	72	44	12	39	13
1794	Excavation work -----	66	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work -----	8	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	*17	70	84	64	21	64	21
1799	Special trade contractors, n.e.c. -----	85	365	695	237	100	256	122
6552	Land subdividers and developers, n.e.c. --	*5	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—											1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K		
H	I	J	K												
9 302	3 646	7 939	2 900	2	3	3	3	3	3	2	3	3	3	15, 16, 17	
														15	
749 130	208 45	673 101	174 27	12 28	17 27	13 27	19 35	13 22	19 25	12 24	18 27	12 42	18 34	152 1521 1522	
62	42	55	37	32	35	30	33	30	32	37	40	34	36	1531 154	
*118 853	*24 260	122 740	*45 237	48 14	51 14	63 15	42 12	45 17	51 18	51 14	52 15	39 16	55 15	1541 1542	
														16	
1 846	809	1 259	492	5	6	6	9	5	6	5	7	6	8	1611 162	
133 565 835	*54 222 360	*88 596 755	*21 235 332	36 7 5	47 12 8	41 9 7	64 14 6	27 8 5	42 13 6	37 9 7	44 13 11	43 4 7	51 10 14	1622 1623 1629	
														17	
717	325	750	318	7	9	8	10	10	14	7	11	8	11	1711	
112	33	110	26	20	25	27	37	17	19	19	28	26	33	1721	
559	227	497	207	6	9	7	10	7	10	7	9	8	10	1731 174	
205 135 (S)	59 38 (S)	164 99 (S)	42 25 (S)	20 30 (S)	24 19 (S)	25 30 (S)	30 13 (S)	22 29 (S)	24 17 (S)	25 34 (S)	26 26 (S)	29 29 (S)	34 24 (S)	1741 1742 1743	
483 (S)	169 (S)	398 (S)	130 (S)	10 (S)	14 (S)	14 (S)	19 (S)	13 (S)	13 (S)	10 (S)	15 (S)	16 (S)	17 (S)	175 1751 1752	
332	136	295	96	7	9	12	18	7	11	9	14	8	10	1761	
270	111	192	64	20	20	30	34	30	22	19	21	22	27	1771	
123	47	120	32	20	22	32	37	24	24	26	38	13	20	1781	
(D) 56 (S) (S) (S)	(D) 24 (S) (S) (S)	(D) 51 (S) (S) (S)	(D) 21 (S) (S) (S)	(D) 3 (S) (S) (S)	(D) 12 (S) (S) (S)	(D) 9 (S) (S) (S)	(D) 14 (S) (S) (S)	(D) 15 (S) (S) (S)	(D) 20 (S) (S) (S)	(D) 20 (S) (S) (S)	(D) 20 (S) (S) (S)	(D) 3 (S) (S) (S)	(D) 3 (S) (S) (S)	179 1791 1793 1794 1795 1796 1797 1799	
74 568	20 282	80 400	19 189	29 13	(W) 28	23 15	(W) 26	23 16	(W) 26	30 12	33 33	13 13	29 29	1796 1799	
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552	

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	4.8	18.9	1 488.9	122.3	.198	.289	.217	.019
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	2.3	13.2	1 090.0	93.3	.170	.342	.249	.007
1522	Other residential buildings	5.7	19.8	1 347.1	271.5	.096	.247	.511	.002
1531	Operative builders	5.5	21.3	2 716.7	460.9	.086	.260	.555	*.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	*8.0	*17.9	*934.4	*211.2	.117	(D)	.541	(S)
1542	Nonresidential buildings, n.e.c.	6.4	18.2	1 271.6	190.9	.131	.241	.494	.007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	18.6	22.9	1 626.7	146.8	.186	.201	.135	.029
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	*8.6	19.2	*1 234.7	76.1	.288	(D)	*.101	*.015
1623	Water, sewer, and utility lines	11.6	23.7	1 651.0	110.2	.279	.330	.112	.030
1629	Heavy construction, n.e.c.	5.9	26.1	1 639.7	175.6	.183	.288	.138	.027
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	4.3	19.3	1 665.8	101.2	.271	.382	.130	.017
1721	Painting and paper hanging	1.7	12.2	1 043.5	56.2	.285	(D)	.054	.007
1731	Electrical work	4.4	19.8	1 592.9	78.9	.339	.387	.025	.011
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	2.8	12.7	1 159.5	59.0	.252	.411	*.014	*.018
1742	Plastering, drywall, and insulation work	3.1	10.6	981.7	49.1	.260	(D)	*.044	*.004
1743	Terrazzo, tile, marble, and mosaic work	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
175	Carpentry and floor work:								
1751	Carpentry	2.8	13.9	1 372.8	96.0	.169	.255	.306	.003
1752	Floor laying and other floor work	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1761	Roofing, siding, and sheet metal work	5.7	18.3	1 412.6	103.0	.235	(D)	.042	.010
1771	Concrete work	2.1	10.3	1 775.9	46.9	.237	.383	*.010	.016
1781	Water well drilling	3.4	14.0	1 193.0	74.5	.255	.567	*.018	(S)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work	*4.4	19.6	1 531.9	(D)	(D)	(D)	(D)	(D)
1794	Excavation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.	*4.9	24.9	1 200.0	110.0	.271	(D)	.022	.007
1799	Special trade contractors, n.e.c.	5.6	14.6	1 904.1	58.7	.323	.432	.017	.035
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

CONTENTS

Nevada

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings-----	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction-----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982-----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982-----	6
4. Detailed Statistics: 1987 and Earlier Census Years-----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986-----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982-----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987-----	12
11. Selected Industry Ratios in This State: 1987-----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	--

--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Nevada. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 7,496 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$4.0 billion in total value of business done.

Most of the 7,496 construction establishments were small. Of the total, 4,950 were nonemployers, and almost half of the employer establishments had less than 5 employees. The 1,312 construction establishments with 5 employees or more, while representing only 18 percent of all establishments, accounted for more than 84 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$3.7 billion on total dollar value of business done. Of this amount, \$3.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$981 million, leaving net value of construction work of \$2.6 billion. In addition, these establishments paid out \$1.1 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.6 billion. (See Introduction and appendices for explanation of terms.)

There were 2,546 establishments with total employment averaging 32,961 during the year. Total payroll for 1987 was \$820 million. Total hours worked by construction workers during the year were 40.3 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

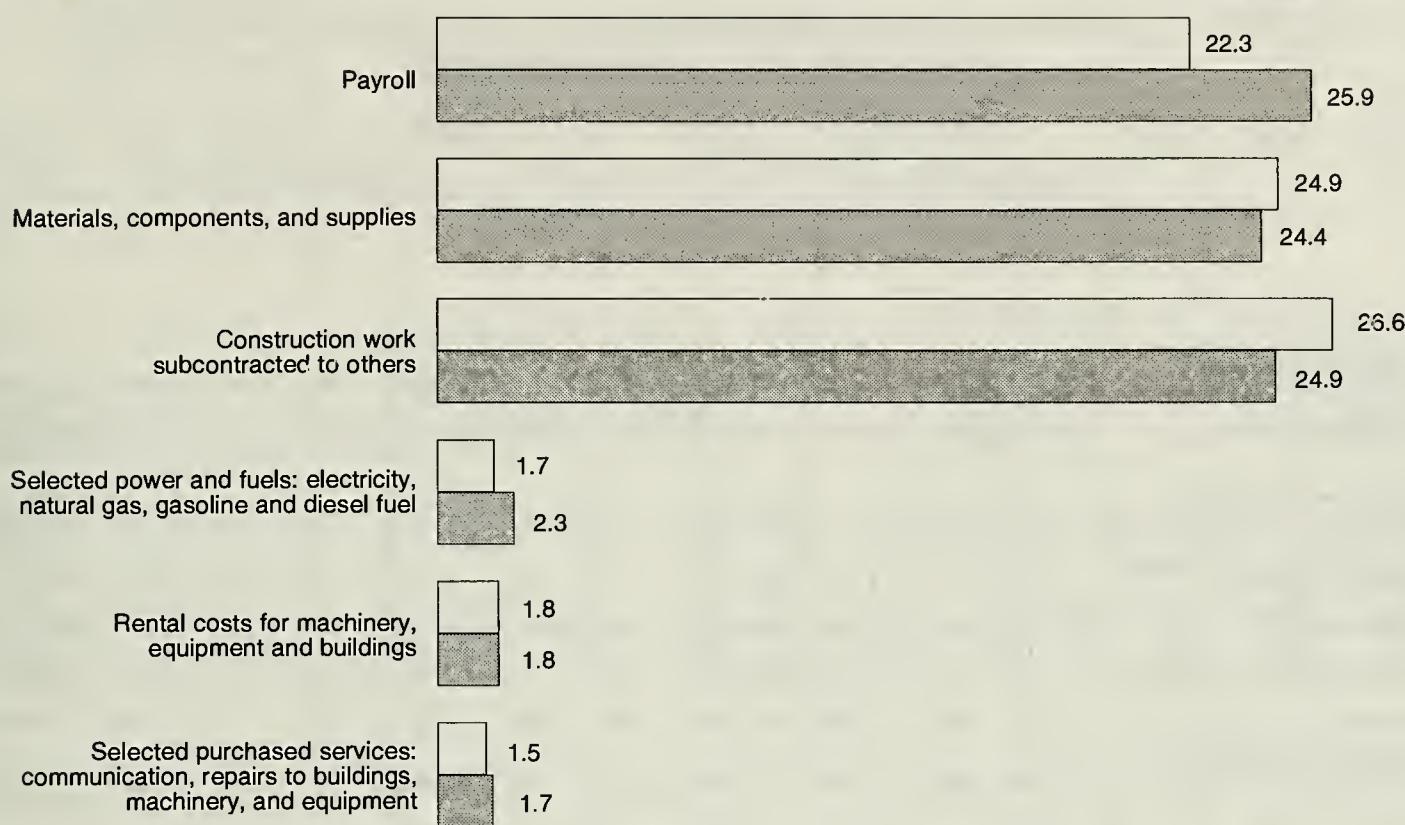
ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 4,950 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$340 million. Most of these establishments, about 72 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. Selected Costs Per Dollar Value of Business Done

(Percent)


**Figure 2. Value of Construction Work by Type of Construction**

(Percent)

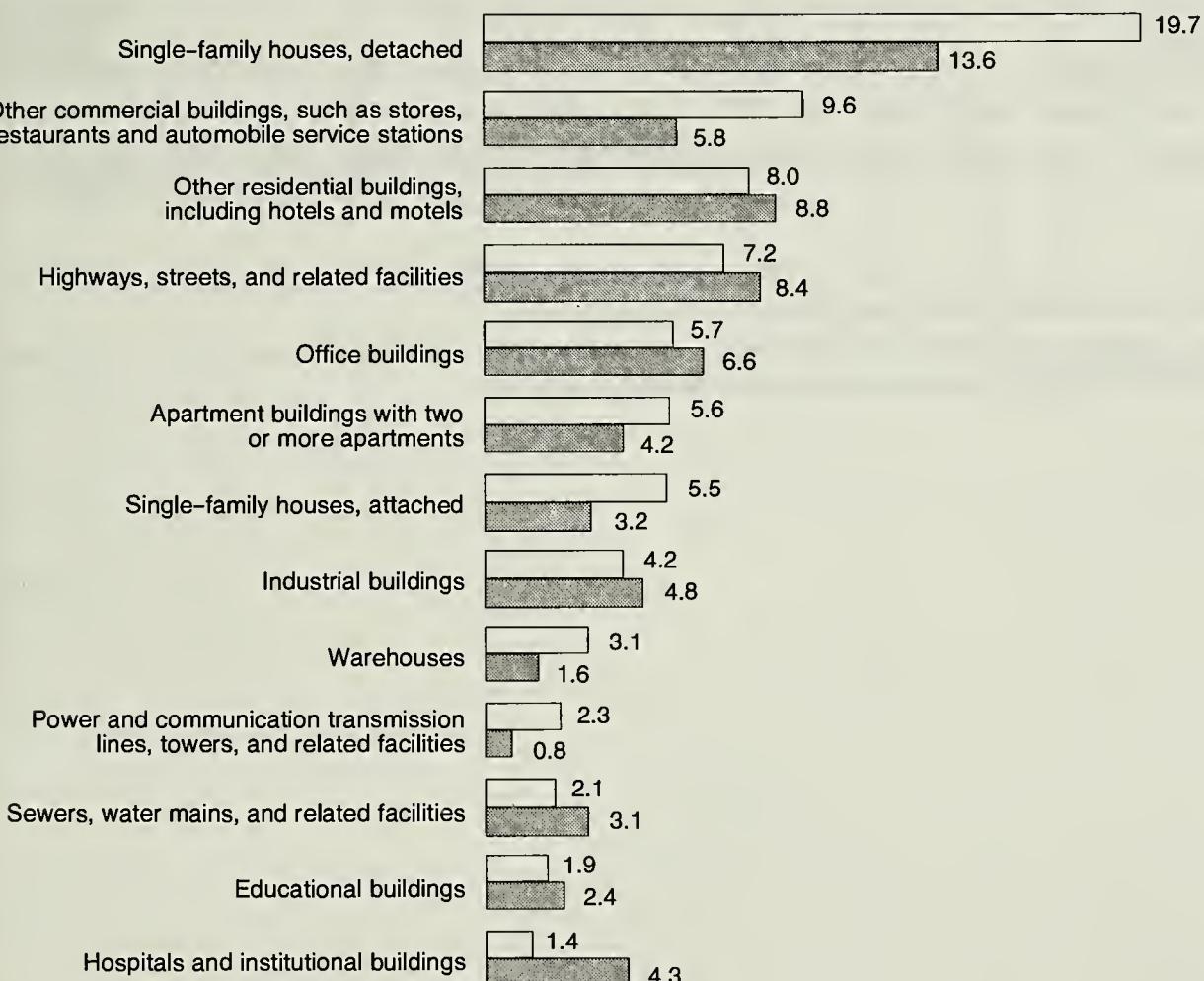



Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹	J	K	
		A	B	C	D	E	F	G	H	I	J	K	J	K	
	1987														
	Construction industries and land subdivider and developers	7 496	5 459	32 961	4 022 055	4 950	4 893	340 007	2 546	566	32 961	3 682 048	1	3	
15, 16, 17	Construction industries	7 219	5 195	32 732	3 893 893	4 728	4 635	261 757	2 491	560	32 732	3 632 136	1	3	
15	Building construction—General contractors and operative builders	1 856	1 175	6 471	1 562 814	1 092	1 019	115 221	764	156	6 471	1 447 593	3	7	
16	Heavy construction other than building construction— contractors	228	113	8 861	898 425	87	88	5 196	141	25	8 861	893 229	1	1	
17	Special trade contractors	5 135	3 907	17 400	1 432 653	3 549	3 528	141 339	1 586	379	17 400	1 291 314	2	2	
1711	Plumbing, heating, and air-conditioning	612	387	3 068	286 546	314	310	17 569	298	77	3 068	268 977	4	4	
1731	Electrical work	456	264	2 768	255 101	209	206	8 774	247	58	2 768	246 327	8	6	
6552	Land subdividers and developers, n.e.c.²	269	(S)	(S)	(S)	222	258	78 250	47	(S)	(S)	(S)	(S)	(S)	
	1982														
	Construction industries and land subdivider and developers	5 600	3 956	24 344	2 347 369	3 317	3 297	195 107	2 283	659	24 344	2 152 262	1	1	
15, 16, 17	Construction industries	5 419	3 833	23 704	2 253 262	3 203	3 178	162 569	2 216	655	23 704	2 090 693	2	1	
15	Building construction—General contractors and operative builders	1 529	1 047	4 373	751 113	911	895	84 429	618	152	4 373	666 684	4	2	
16	Heavy construction other than building construction— contractors	262	174	7 269	648 860	134	127	4 893	128	47	7 269	643 967	1	1	
17	Special trade contractors	3 628	2 612	12 062	853 289	2 158	2 156	73 247	1 470	456	12 062	780 042	3	2	
1711	Plumbing, heating, and air-conditioning	488	251	2 367	210 087	193	187	9 946	295	64	2 367	200 141	4	3	
1731	Electrical work	345	199	1 812	138 056	168	168	7 374	177	31	1 812	130 682	5	3	
6552	Land subdividers and developers, n.e.c.²	176	122	637	94 101	114	119	32 538	62	(S)	637	61 563	9	8	

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll					Relative standard error of estimate (percent) for column—		
	Number	Proprietors and working partners	All employees ^{**}	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees ^{**}	Dollar value of business done ²				
		A	B	C		E	F		H	I	J				
1987															
The State -----	7 496	5 459	32 961	4 022 055	4 950	4 893	340 007	2 546	566	32 961	3 682 048	1	3		
\$10,000,000 or more -----	58	8	10 091	(D)	1	—	(D)	57	8	10 091	1 649 057	(W)	5		
\$5,000,000 to \$9,999,999 -----	76	6	3 732	2 183 052	5	5	37 363	71	1	3 732	496 632	3	8		
\$2,500,000 to \$4,999,999 -----	131	32	3 487	456 880	7	6	23 420	124	26	3 487	433 460	3	10		
\$1,000,000 to \$2,499,999 -----	378	86	6 649	577 827	33	35	48 711	345	51	6 649	529 116	6	6		
\$500,000 to \$999,999 -----	436	147	3 820	309 981	69	67	48 124	367	80	3 820	261 857	7	8		
\$250,000 to \$499,999 -----	(S)	(S)	(S)	(S)	146	142	50 655	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
\$100,000 to \$249,999 -----	(S)	(S)	(S)	(S)	322	316	49 324	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	474	458	33 468	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	662	652	23 417	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000 -----	(S)	(S)	(S)	(S)	3 231	3 212	25 525	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 056	1 048	17 314	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	689	689	5 006	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	552	551	2 017	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	934	924	1 188	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982															
The State -----	5 600	3 956	24 344	2 347 369	3 317	3 297	195 107	2 283	659	24 344	2 152 262	1	1		
\$10,000,000 or more -----	29	4	8 026	(D)	1	2	(D)	28	2	8 026	965 491	(W)	(W)		
\$5,000,000 to \$9,999,999 -----	40	3	1 910	(D)	1	1	(D)	39	2	1 910	249 585	(W)	(W)		
\$2,500,000 to \$4,999,999 -----	72	11	2 435	1 476 944	6	8	34 947	66	3	2 435	226 921	(W)	(W)		
\$1,000,000 to \$2,499,999 -----	213	53	3 695	327 601	27	27	41 335	186	26	3 695	286 266	4	5		
\$500,000 to \$999,999 -----	286	74	2 848	193 895	24	19	17 060	262	55	2 848	176 835	6	6		
\$250,000 to \$499,999 -----	409	151	2 048	144 605	60	63	20 313	349	88	2 048	124 292	8	8		
\$100,000 to \$249,999 -----	715	355	1 966	115 191	186	185	27 379	529	170	1 966	87 812	10	8		
\$50,000 to \$99,999 -----	628	401	789	44 666	279	278	19 692	349	123	789	24 974	11	10		
\$25,000 to \$49,999 -----	666	529	318	23 628	478	468	16 689	188	61	318	6 939	14	12		
Less than \$25,000 -----	2 540	2 374	307	20 836	2 255	2 246	17 692	285	128	307	3 144	10	10		
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	757	747	12 171	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	503	508	3 426	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	578	573	1 678	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	417	418	417	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers	2 546	32 961	25 026	820 432	585 316	40 288	3 542 235	2 561 597
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	404	1 866	1 404	35 565	24 374	2 293	242 541	149 765
1522	Other residential buildings	51	676	576	23 486	15 024	1 076	236 989	62 274
1531	Operative builders	95	1 302	600	34 256	12 319	976	351 401	177 264
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	28	540	403	13 716	10 436	683	115 753	47 876
1542	Nonresidential buildings, n.e.c.	186	2 087	1 553	47 859	33 132	1 998	416 718	170 926
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	37	1 980	1 729	75 112	56 402	3 249	301 240	261 007
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	10	(D)	(D)	2 746	2 218	96	(D)	
1623	Water, sewer, and utility lines	43	666	546	18 629	13 449	929	69 641	64 479
1629	Heavy construction, n.e.c.	51	(D)	(D)	(D)	(D)	(D)	(D)	(D)
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	298	3 068	2 398	76 957	56 546	3 788	266 110	251 902
1721	Painting and paper hanging	105	703	626	12 600	11 123	918	34 102	31 050
1731	Electrical work	247	2 768	2 211	73 319	56 147	4 323	244 191	227 968
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	106	865	761	17 293	13 737	1 038	57 428	56 565
1742	Plastering, drywall, and insulation work	84	2 656	2 391	51 156	44 956	3 519	119 984	116 383
1743	Terrazzo, tile, marble, and mosaic work	29	267	213	6 075	4 441	302	17 105	17 041
175	Carpentry and floor work:								
1751	Carpentry	152	1 683	1 511	27 171	23 358	2 245	97 627	91 295
1752	Floor laying and other floor work	25	224	182	4 446	3 490	*303	14 668	14 356
1761	Roofing, siding, and sheet metal work	101	1 145	931	21 166	15 735	1 342	77 180	75 501
1771	Concrete work	98	1 186	1 015	28 468	21 990	1 502	94 123	86 844
1781	Water well drilling	34	71	57	1 390	1 138	121	8 598	8 529
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	19	284	209	8 356	6 087	316	24 831	23 979
1793	Glass and glazing work	38	366	255	9 369	5 887	433	32 397	31 675
1794	Excavation work	81	683	545	17 907	13 815	931	85 734	67 167
1795	Wrecking and demolition work	*13	*97	*85	2 164	1 843	*160	5 780	(D)
1796	Installing building equipment, n.e.c.	12	121	92	5 186	4 132	164	14 982	(D)
1799	Special trade contractors, n.e.c.	144	1 213	1 002	20 951	16 246	1 751	75 123	68 132
6552	Land subdividers and developers, n.e.c.	47	(S)	(S)	(S)	(S)	(S)	(S)	(S)

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.

1982

Relative standard
error of estimate
(percent) for
column—1987
SIC
code

Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts ¹	Value added††	Relative standard error of estimate (percent) for column—			1987 SIC code	
I	J	K	L	M	N	O	P	Q	B	H	M		
1 648 169	976 928	980 638	67 085	52 530	366 979	24 344	2 072 786	1 007 727	1	1	4	15, 16, 17	
												15	
91 992 32 744	61 658 29 564	92 776 *174 714	1 847 847	1 304 1 009	11 312 5 817	1 795 (D)	120 926 115 115	49 948 43 538	8 11	12 10	24 28	152 1521 1522	
111 965	77 639	174 137	2 515	5 933	52 943	529	100 940	25 131	4	6	7	1531	
33 494 104 441	18 455 68 837	67 877 245 791	735 3 637	1 209 2 348	5 646 15 015	223 1 324	33 813 273 532	8 511 71 238	9 10	11 14	37 17	154 1541 1542	
												16	
171 391	103 991	40 233	20 878	13 319	86 666	1 535	175 061	76 472	1	1	3	1611	
5 330 41 770 (D)	23 665 (D)	5 161 (D)	3 661 (D)	*2 703 (D)	18 533 (D)	(D) 539 (D)	55 610 (D)	28 407 (D)	(D) 8 (D)	(D) 5 (D)	(D) 52 (D)	162 1622 1623 1629	
												17	
143 796	110 972	14 208	3 800	3 385	20 374	2 367	182 946	105 279	4	4	16	1711	
22 963	(D)	3 051	723	*809	4 926	845	33 997	23 540	13	14	46	1721	
144 674	85 430	16 222	5 374	3 840	23 690	1 812	128 972	79 131	8	6	16	1731	
32 621 78 448 10 403	24 129 39 769 6 883	*863 3 600 64	551 1 525 202	*1 817 1 101 467	7 011 8 174 1 265	531 1 314 115	23 624 58 347 6 546	13 452 35 402 3 974	10 9 13	12 4 4	45 30 28	174 1741 1742	
49 597 8 136	42 576 6 417	6 331 *312	1 170 *195	747 *160	5 159 *1 628	729 118	39 103 9 405	22 717 4 845	5 35	7 37	19 54	175 1751 1752	
45 112	30 674	1 679	1 759	880	10 098	708	44 706	24 830	11	9	31	1761	
55 118	32 297	7 279	3 089	1 691	10 262	772	53 679	30 949	7	4	22	1771	
5 181	(D)	*69	*147	*370	*3 600	115	(D)	3 600	4	6	48	1781	
14 693 19 043 51 797 5 691 10 537 43 702	13 049 15 507 17 592 917 4 505 25 578	852 721 18 567	438 456 1 987	221 (D) 5 360	4 434 938 30 556 *426 *3 137	652 366 614 (D) 139	44 128 21 846 41 309 (D) 139	30 363 12 798 30 287 (D) 9 867	5 11 11 8 44	2 7 8 (D) (D)	15 (D) 11 46 (D) (W)	179 1791 1793 1794 1795 1796 1799	
(S)	(S)	(S)	(S)	(S)	(S)	(S)	637	39 718	21 860	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	2 546	2 283	1 817	1 498	2	3	5	6
Proprietors and working partners	566	659	1 074	922	10	8	9	8
All employees**	32 961	24 344	21 984	18 322	1	1	2	3
Construction workers:								
March	24 222	18 196	16 174	13 263	2	2	2	3
May	25 443	18 356	18 062	14 285	2	2	2	3
August	26 015	18 590	19 165	14 299	2	2	2	3
November	24 426	17 213	20 191	14 382	2	3	2	3
Average	25 026	18 335	18 413	14 248	2	2	2	3
Other employees:								
March	7 943	5 992	3 480	4 038	1	1	3	2
May	7 887	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	7 988	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	7 918	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	7 934	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	9 716	6 762	(NA)	(NA)	2	1	(NA)	(NA)
April to June	10 576	7 166	(NA)	(NA)	2	1	(NA)	(NA)
July to September	10 660	7 136	(NA)	(NA)	2	2	(NA)	(NA)
October to December	9 336	6 682	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	40 288	27 747	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	820 432	557 481	324 001	215 860	1	1	1	2
Payroll, construction workers	585 316	426 768	261 267	157 920	1	1	1	2
Payroll, other employees	235 116	130 713	62 734	57 940	1	1	1	2
First quarter payroll, all employees	192 713	131 519	67 576	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	203 829	116 590	75 808	(NA)	1	1	1	(NA)
Legally required expenditures	119 465	75 830	36 597	(NA)	2	1	1	(NA)
Voluntary expenditures	84 363	40 759	39 211	(NA)	1	1	1	(NA)
Dollar value of business done	3 682 048	2 152 262	1 290 715	747 701	3	1	1	3
Value of construction work ¹	3 542 235	2 072 786	1 230 055	669 505	3	1	1	3
Value of construction work subcontracted in from others	856 838	492 363	425 594	177 606	2	2	2	4
Land receipts ²	76 312	32 750	(NA)	(NA)	8	5	(NA)	(NA)
Other business receipts	63 500	46 725	60 660	78 196	6	2	2	9
Net value of construction	2 561 597	1 536 303	940 533	500 075	1	1	1	3
Value added††	1 648 169	1 007 727	579 176	350 113	2	1	1	3
Selected costs								
Materials, components, and supplies ³	1 957 566	1 111 785	675 173	365 250	4	1	2	3
Construction work subcontracted to others	915 661	525 739	363 864	196 064	2	1	1	3
Selected power, fuels, and lubricants	980 638	536 483	289 522	169 430	8	1	2	3
Electricity	61 266	49 561	21 787	(NA)	2	2	1	(NA)
Natural gas	13 994	11 479	4 611	(NA)	1	1	2	(NA)
Gasoline and diesel fuel	1 764	1 380	1 020	(NA)	5	5	5	(NA)
On highway use	41 580	34 417	13 489	(NA)	2	2	2	(NA)
Off highway use	26 811	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	14 769	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
	3 926	2 284	2 667	(NA)	8	6	3	(NA)
Rental cost for machinery, equipment, and buildings	67 085	39 330	19 351	(NA)	2	2	4	(NA)
For machinery and equipment	48 864	29 705	16 455	8 685	3	2	5	4
For buildings	18 220	9 625	2 896	(NA)	4	3	3	(NA)
Selected purchased services	54 782	37 066	21 848	(NA)	2	2	2	(NA)
Communication services	13 441	9 387	5 748	(NA)	3	3	2	(NA)
Repairs to buildings and other structures	3 523	1 242	827	(NA)	11	6	6	(NA)
Repairs to machinery and equipment	37 817	26 437	15 272	(NA)	2	2	2	(NA)
Ownership of construction projects:								
Value of construction work	3 542 235	2 072 786	1 230 055	669 505	3	1	1	3
Government owned	983 801	663 596	286 344	197 512	3	2	1	2
Federal	550 082	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
State and local	433 718	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
Privately owned	2 558 434	1 409 190	943 711	471 993	5	2	2	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	334 107	357 868	8	2
Capital expenditures, other than land	52 530	26 445	4	4
New	35 231	17 666	5	5
Used	17 298	8 779	7	6
Retirements and disposition of depreciable assets	19 658	23 383	26	3
End-of-year gross book value of depreciable assets	366 979	360 931	6	2
Depreciation charges during year ¹	40 273	41 983	5	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	98 115	70 442	25	3
Capital expenditures, other than land	9 625	3 828	10	12
New buildings and other structures	7 005	3 537	5	13
Used buildings and other structures	2 619	291	33	11
Retirements and disposition of depreciable assets	*9 743	10 417	50	1
End-of-year gross book value of depreciable assets	97 997	63 853	21	4
Depreciation charges during year	6 212	4 430	22	4
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	235 991	287 426	3	2
Capital expenditures, other than land	42 905	22 616	5	4
New machinery and equipment, including automobiles and trucks	28 226	14 129	7	5
New automobiles and trucks, intended primarily for highway use	12 526	4 565	8	6
Used machinery and equipment, including automobiles and trucks	14 679	8 487	6	6
Retirements and disposition of depreciable assets	9 915	12 965	12	5
End-of-year gross book value of depreciable assets	268 981	297 078	3	2
Depreciation charges during year	34 061	37 553	4	4

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	2 546	2
Value of construction work	3 542 235	3
Establishments with inventories:		
Number	1 046	6
Value of construction work	1 426 613	4
Inventories ¹ :		
End of 1987, materials and supplies	31 720	6
End of 1986, materials and supplies	29 129	6
Establishments with no inventories:		
Number	995	7
Value of construction work	1 174 294	10
Establishments not reporting:		
Number	505	10
Value of construction work	941 328	5

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	2 546	(S)	(S)	340	255	68	25	2	-	1
All employees**	32 961	(S)	(S)	4 583	7 436	4 647	9 834	(D)	-	(D)
Payroll, all employees	820 432	(S)	(S)	106 202	176 298	129 947	293 161	(D)	-	(D)
Construction worker hours (thousands)	40 288	(S)	(S)	5 581	9 405	6 328	11 798	(D)	-	(D)
Dollar value business done	3 682 048	(S)	(S)	490 182	766 108	641 308	1 044 731	(D)	-	(D)
Value of construction work ¹	3 542 235	(S)	(S)	467 063	742 694	608 576	1 014 295	(D)	-	(D)
Net value of construction work ¹	2 561 597	(S)	(S)	340 239	520 536	219 939	(D)	(D)	-	(D)
Value added††	1 648 169	(S)	(S)	214 113	333 387	290 143	501 081	(D)	-	(D)
Cost of materials, components, supplies, and fuels	976 928	(S)	(S)	138 699	204 115	181 580	271 630	(D)	-	(D)
Cost of construction work subcontracted to others	980 638	(S)	(S)	126 824	222 158	402 932	(D)	(D)	-	(D)
Rental cost for machinery, equipment, and buildings	67 085	(S)	(S)	7 549	10 883	12 488	26 797	(D)	-	(D)
Capital expenditures, other than land	52 530	(S)	(S)	6 114	8 542	10 450	13 608	(D)	-	(D)
End-of-year gross book value of depreciable assets	366 979	(S)	(S)	52 432	75 625	69 236	73 942	(D)	-	(D)
1982										
All employees**	24 344	2 756	2 865	3 665	4 620	2 469	1 852	6 116	(D)	(D)
Value of construction work ¹	2 072 786	168 283	174 867	287 343	496 702	248 943	198 797	497 851	(D)	(D)
Value added††	1 007 727	84 682	84 563	133 317	207 734	145 871	83 799	267 758	(D)	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	(S)	(S)	6	4	2	6	(D)	-	(D)
Net value of construction work ¹	1	(S)	(S)	8	3	(W)	(D)	(D)	-	(D)
Capital expenditures, other than land	4	(S)	(S)	15	8	(W)	(D)	(D)	-	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	2 546	(S)	(S)	(S)	(S)	367	345	124	71	57	
All employees**	32 961	(S)	(S)	(S)	(S)	3 820	6 649	3 487	3 732	10 091	
Payroll, all employees	820 432	(S)	(S)	(S)	(S)	73 149	144 077	86 450	103 597	335 623	
Construction worker hours (thousands)	40 288	(S)	(S)	(S)	(S)	4 636	9 013	4 321	4 980	11 841	
Dollar value business done	3 682 048	(S)	(S)	(S)	(S)	261 857	529 116	433 460	496 632	1 649 057	
Value of construction work ¹	3 542 235	(S)	(S)	(S)	(S)	254 331	507 757	412 604	478 600	1 582 210	
Net value of construction work ¹	2 561 597	(S)	(S)	(S)	(S)	210 894	440 385	296 122	342 319	990 465	
Value added††	1 648 169	(S)	(S)	(S)	(S)	129 153	279 581	184 190	218 021	658 082	
Cost of materials, components, supplies, and fuels	976 928	(S)	(S)	(S)	(S)	85 477	175 798	119 527	136 137	355 269	
Cost of construction work subcontracted to others	980 638	(S)	(S)	(S)	(S)	43 437	67 372	116 481	136 281	591 745	
Rental cost for machinery, equipment, and buildings	67 085	(S)	(S)	(S)	(S)	4 991	8 404	5 785	6 449	35 258	
Capital expenditures, other than land	52 530	(S)	(S)	(S)	(S)	5 668	5 634	3 190	7 260	20 339	
End-of-year gross book value of depreciable assets	366 979	(S)	(S)	(S)	(S)	34 433	44 438	45 168	65 553	118 587	
1982											
All employees**	24 344	307	318	789	1 966	2 048	2 848	3 695	2 435	1 910	8 026
Value of construction work ¹	2 072 786	3 102	6 756	24 525	85 803	119 141	170 864	274 314	219 355	240 516	928 408
Value added††	1 007 727	1 777	3 681	12 856	46 003	62 845	88 757	137 695	109 232	118 132	426 745
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	(S)	(S)	7	6	3	(W)
Net value of construction work ¹	1	(S)	(S)	(S)	(S)	(S)	(S)	8	5	5	1
Capital expenditures, other than land	4	(S)	(S)	(S)	(S)	(S)	(S)	18	12	10	6

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	3 542 235	2 574 333	586 002	252 296	3	4	5	3
Building construction	2 407 029	1 848 770	384 050	151 182	4	5	8	4
Single-family houses	893 397	758 895	87 609	46 891	4	5	9	8
Single-family houses, detached	698 922	580 165	81 259	37 498	4	5	10	10
Single-family houses, attached	194 475	178 730	6 350	9 393	11	12	11	15
Apartment buildings with two or more apartments	197 057	175 055	10 776	11 225	30	33	9	14
Other residential buildings, including hotels and motels	281 604	204 941	59 486	17 176	2	2	5	6
Hotels and motels	244 501	185 534	44 129	14 837	2	2	2	6
Other residential buildings, excluding hotels and motels	37 103	19 407	15 357	2 339	11	7	19	32
Office buildings	203 341	155 382	34 325	13 633	4	5	6	9
Other commercial buildings such as stores, restaurants, and automobile service stations	339 083	225 387	89 651	24 043	14	17	29	10
Industrial buildings and warehouses	258 876	200 120	40 979	17 776	4	4	5	7
Industrial buildings	148 699	107 657	27 682	13 359	5	6	6	7
Warehouses	110 177	92 463	13 297	4 417	5	6	7	12
Religious buildings	16 007	4 621	10 347	1 038	19	8	29	12
Educational buildings	67 633	40 301	21 879	5 452	5	7	7	13
Hospitals and institutional buildings	49 697	25 016	21 943	2 737	11	6	22	12
Farm buildings	7 266	5 143	570	1 551	8	7	32	19
Amusement, social, and recreational buildings	39 406	35 744	1 123	2 539	2	1	13	15
Other nonresidential buildings	30 630	18 159	5 356	7 115	7	7	22	4
Land development for buildings	23 026	(NA)	(NA)	(NA)	14	(NA)	(NA)	(NA)
Nonbuilding construction	1 028 628	725 563	201 952	101 112	2	2	2	3
Highways, streets, and related facilities	255 444	137 503	98 364	19 576	1	1	(W)	3
Outdoor swimming pools	17 165	16 725	*260	179	17	17	50	8
Parking areas including private driveways	14 744	12 179	1 576	*987	24	28	2	72
Fencing	9 876	7 747	903	1 226	9	10	21	2
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	13 031	11 409	(D)	(D)	2	1	(D)	(D)
Conservation and development construction	4 715	1 441	2 544	729	21	39	28	19
Power and communication transmission lines, towers, and related facilities	79 962	66 353	5 360	8 249	17	15	37	18
Sewers, water mains, and related facilities	74 398	58 735	12 990	2 672	5	6	5	18
Sewers, sewer lines, and related facilities	34 035	26 237	6 511	1 286	5	6	6	23
Water mains and related facilities	40 363	32 498	6 479	1 386	8	9	5	18
Pipeline, other than sewer or water lines	14 743	9 310	3 197	2 234	5	4	5	8
Sewage treatment and water treatment plants	13 201	12 009	(D)	(D)	(W)	(W)	(D)	(D)
Earthmoving, nonbuilding	19 833	14 349	2 182	3 300	6	7	3	3
Other nonbuilding construction	511 516	377 803	74 576	61 960	17	18	47	15
Construction work, n.s.k.	106 578	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1982								
Value of construction work¹	2 072 786	1 723 728	(NA)	349 058	1	1	(NA)	2
Building construction	1 208 787	1 048 308	(NA)	160 479	1	1	(NA)	3
Single-family houses	347 441	296 569	(NA)	50 872	3	3	(NA)	4
Single-family houses, detached	281 770	241 152	(NA)	40 618	4	4	(NA)	5
Single-family houses, attached	65 670	55 416	(NA)	10 253	5	5	(NA)	7
Apartment buildings with two or more apartments	86 136	71 690	(NA)	14 445	11	11	(NA)	21
Other residential buildings, including hotels and motels	182 872	158 893	(NA)	23 978	1	1	(NA)	3
Office buildings	137 323	122 629	(NA)	14 693	2	2	(NA)	6
Other commercial buildings such as stores, restaurants, and automobile service stations	119 232	101 560	(NA)	17 672	3	2	(NA)	11
Industrial buildings and warehouses	132 619	115 967	(NA)	16 651	3	4	(NA)	4
Industrial buildings	99 847	86 196	(NA)	13 651	4	5	(NA)	4
Warehouses	32 772	29 771	(NA)	3 000	3	3	(NA)	11
Religious buildings	6 644	4 487	(NA)	2 156	5	6	(NA)	8
Educational buildings	49 605	43 052	(NA)	6 553	3	2	(NA)	8
Hospitals and institutional buildings	89 645	85 613	(NA)	4 031	2	1	(NA)	5
Farm buildings	13 053	12 925	(NA)	*128	4	4	(NA)	43
Amusement, social, and recreational buildings	32 675	25 033	(NA)	7 641	5	4	(NA)	11
Other nonresidential buildings	11 537	9 884	(NA)	1 652	15	18	(NA)	9
Nonbuilding construction	706 798	547 282	(NA)	159 516	1	1	(NA)	2
Highways, streets, and related facilities	172 997	152 465	(NA)	20 531	2	1	(NA)	12
Outdoor swimming pools	2 548	2 248	(NA)	300	12	14	(NA)	(W)
Parking areas including private driveways	*3 163	*2 710	(NA)	*452	45	52	(NA)	49
Fencing	5 558	5 317	(NA)	240	18	19	(NA)	19
Power and communication transmission lines, towers, and related facilities	15 642	14 162	(NA)	1 479	6	6	(NA)	21
Sewers, water mains, and related facilities	64 332	58 493	(NA)	5 838	4	4	(NA)	12
Sewers, sewer lines, and related facilities	30 789	28 939	(NA)	1 850	6	6	(NA)	15
Water mains and related facilities	33 542	29 553	(NA)	3 988	6	6	(NA)	16
Pipeline, other than sewer or water lines	4 154	4 154	(NA)	—	7	7	(NA)	—
Other nonbuilding construction	438 405	307 730	(NA)	130 668	25	29	(NA)	31
Construction work, n.s.k.	157 200	128 138	(NA)	29 062	4	4	(NA)	6

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					A	B	C	D
	Construction Industries and land subdivider and developers -----	2 546	25 026	40 288		24 222	9 716	25 443
15, 16, 17	Construction Industries:							10 576
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	404	1 404	2 293	1 405	601	1 555	614
1522	Other residential buildings -----	51	576	1 076	612	282	533	275
1531	Operative builders -----	95	600	976	636	253	616	235
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	28	403	683	378	146	327	134
1542	Nonresidential buildings, n.e.c. -----	186	1 553	1 998	1 614	487	1 559	476
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	37	1 729	3 249	1 444	628	1 757	846
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	10	(D)	96	75	35	(D)	(D)
1623	Water, sewer, and utility lines -----	43	546	929	485	216	513	215
1629	Heavy construction, n.e.c. -----	51	(D)	(D)	(D)	(D)	(D)	(D)
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	298	2 398	3 788	2 279	833	2 318	925
1721	Painting and paper hanging -----	105	626	918	566	222	604	224
1731	Electrical work-----	247	2 211	4 323	2 183	983	2 173	1 043
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework-----	106	761	1 038	708	222	684	277
1742	Plastering, drywall, and insulation work-----	84	2 391	3 519	2 437	920	2 625	940
1743	Terrazzo, tile, marble, and mosaic work -----	29	213	302	186	71	216	75
175	Carpentry and floor work:							
1751	Carpentry -----	152	1 511	2 245	1 472	510	1 500	561
1752	Floor laying and other floor work -----	25	182	*303	200	*75	183	*70
1761	Roofing, siding, and sheet metal work-----	101	931	1 342	873	285	981	375
1771	Concrete work-----	98	1 015	1 502	940	355	1 068	377
1781	Water well drilling-----	34	57	121	43	23	65	34
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	19	209	316	166	60	249	87
1793	Glass and glazing work -----	38	255	433	248	102	243	103
1794	Excavation work -----	81	545	931	536	208	578	234
1795	Wrecking and demolition work -----	*13	*85	*160	*100	37	*112	*66
1796	Installing building equipment, n.e.c. -----	12	92	164	147	62	72	31
1799	Special trade contractors, n.e.c. -----	144	1 002	1 751	952	381	1 063	465
6552	Land subdividers and developers, n.e.c. --	47	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—												1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K			
H	I	J	K													
26 015	10 660	24 426	9 336	2	2	2	2	2	2	2	2	2	2	2	2	15, 16, 17
																15
1 408 577	567 271	1 250 582	509 246	8 9	10 19	9 8	12 14	9 10	11 20	8 10	10 22	8 12	11 26	152 1521 1522		
606	253	543	233	5	8	8	13	7	12	3	5	3	7	7	1531	154
1 446 1 627	192 556	1 460 1 414	209 477	9 11	13 12	8 14	12 16	13 13	17 12	8 11	12 12	8 11	15 13	1541 1542		16
1 935	957	1 778	816	1	2	1	2	1	2	1	2	1	1	1	1	1611
(D) 598 (D)	(D) 251 (D)	(D) 591 (D)	(D) 245 (D)	(D) 7	12 11 (D)	20 6 (D)	32 11 (D)	(D) 6 (D)	(D) 11 (D)	(D) 9 (D)	(D) 12 (D)	(D) 10 (D)	(D) 13 (D)	(D) 1623 1629		162 1622
																17
2 539	1 024	2 458	1 003	4	5	5	6	4	5	4	6	4	6	6	6	1711
623	216	710	255	13	17	13	20	14	18	12	17	14	19	19	1721	
2 227	1 137	2 259	1 159	8	9	8	10	9	10	7	8	8	10	10	1731	174
788 2 481 212	253 917 78	863 2 021 237	285 742 76	10 10 12	14 11 15	14 12 13	17 14 17	14 11 11	19 15 15	12 11 14	17 14 17	11 6 12	16 5 14	16 1742 1743		1741
1 579 210	609 *97	1 491 136	563 *60	5 35	9 46	5 38	10 49	6 38	10 47	10 38	13 45	4 30	9 46	9 46	175 1751 1752	
1 011	350	859	330	10	17	9	13	10	17	12	19	11	20	20	1761	
1 002	395	1 049	373	7	8	8	8	7	8	7	8	7	8	8	8	1771
65	33	56	30	3	23	18	30	4	22	4	21	13	28	28	1781	
231 246 544 *80 76 1 107	93 99 263 *30 37 460	193 284 521 *51 26 33 888	73 127 224 11 50 33 443	4 11 11 10 42 2 10	5 9 15 16 45 (W) 12	2 9 16 11 35 (W) 10	3 13 53 1 (W)	6 10 52 1 (W)	7 14 56 3 (W)	8 11 41 3 (W)	8 13 44 3 (W)	6 12 34 2 10	3 17 11 12 10 13	3 25 11 34 12 2 13	179 1791 1793 1794 1795 1796 1799	
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	8552	

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	13.0	24.9	1 610.0	141.5	.232	.276	.277	.019
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.6	19.1	1 633.2	172.8	.147	.254	.383	.008
1522	Other residential buildings	13.3	34.7	1 868.1	411.4	.099	.125	.737	.004
1531	Operative builders	13.7	26.3	1 626.7	585.7	.097	.221	.496	.007
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	19.3	25.4	1 694.8	287.2	.118	.159	.586	.006
1542	Nonresidential buildings, n.e.c.	11.2	22.9	1 286.5	268.3	.115	.165	.590	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	53.5	37.9	1 879.1	174.2	.249	.345	.134	.069
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	15.5	28.0	1 701.5	127.5	.268	.340	.074	.053
1629	Heavy construction, n.e.c.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	10.3	25.1	1 579.6	111.0	.289	.417	.053	.014
1721	Painting and paper hanging	6.7	17.9	1 466.5	54.5	.369	(D)	.089	.021
1731	Electrical work	11.2	26.5	1 955.2	110.4	.300	.350	.066	.022
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	8.2	20.0	1 364.0	75.5	.301	.420	*.015	.010
1742	Plastering, drywall, and insulation work	31.6	19.3	1 471.8	50.2	.426	.331	.030	.013
1743	Terrazzo, tile, marble, and mosaic work	9.2	22.8	1 417.8	80.3	.355	.402	.004	.012
175	Carpentry and floor work:								
1751	Carpentry	11.1	16.1	1 485.8	64.6	.278	.436	.065	.012
1752	Floor laying and other floor work	9.0	19.8	*1 664.8	80.6	.303	.437	*.021	*.013
1761	Roofing, siding, and sheet metal work	11.3	18.5	1 441.5	82.9	.274	.397	.022	.023
1771	Concrete work	12.1	24.0	1 479.8	92.7	.302	.343	.077	.033
1781	Water well drilling	2.1	19.6	2 122.8	150.8	.162	(D)	*.008	*.017
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	14.9	29.4	1 512.0	118.8	.337	.526	.034	.018
1793	Glass and glazing work	9.6	25.6	1 698.0	127.0	.289	.479	.022	.014
1794	Excavation work	8.4	26.2	1 708.3	157.3	.209	.205	.217	.023
1795	Wrecking and demolition work	*7.5	*22.3	*1 882.4	*68.0	.374	.159	(D)	.114
1796	Installing building equipment, n.e.c.	10.1	42.9	1 782.6	162.8	.346	.301	(D)	.010
1799	Special trade contractors, n.e.c.	8.4	17.3	1 747.5	75.0	.279	.340	.093	.016
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

CONTENTS

New Mexico

[Page numbers listed here omit the prefix that appears as part of the number of each page]

Page

Summary of Findings-----	2
--------------------------	---

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction-----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982-----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982-----	6
4. Detailed Statistics: 1987 and Earlier Census Years-----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986-----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982-----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982-----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987-----	12
11. Selected Industry Ratios in This State: 1987-----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	--

--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for New Mexico. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 10,789 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$2.8 billion in total value of business done.

Most of the 10,789 construction establishments were small. Of the total, 7,082 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,446 construction establishments with 5 employees or more, while representing only 13 percent of all establishments, accounted for more than 75 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.43 billion on total dollar value of business done. Of this amount, \$2.35 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$577 million, leaving net value of construction work of \$1.8 billion. In addition, these establishments paid out \$839 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.1 billion. (See Introduction and appendices for explanation of terms.)

There were 3,707 establishments with total employment averaging 29,139 during the year. Total payroll for 1987 was \$500 million. Total hours worked by construction workers during the year were 39.0 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 7,082 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$362 million. Most of these establishments, about 69 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. Selected Costs Per Dollar Value of Business Done
(Percent)

1987
1982

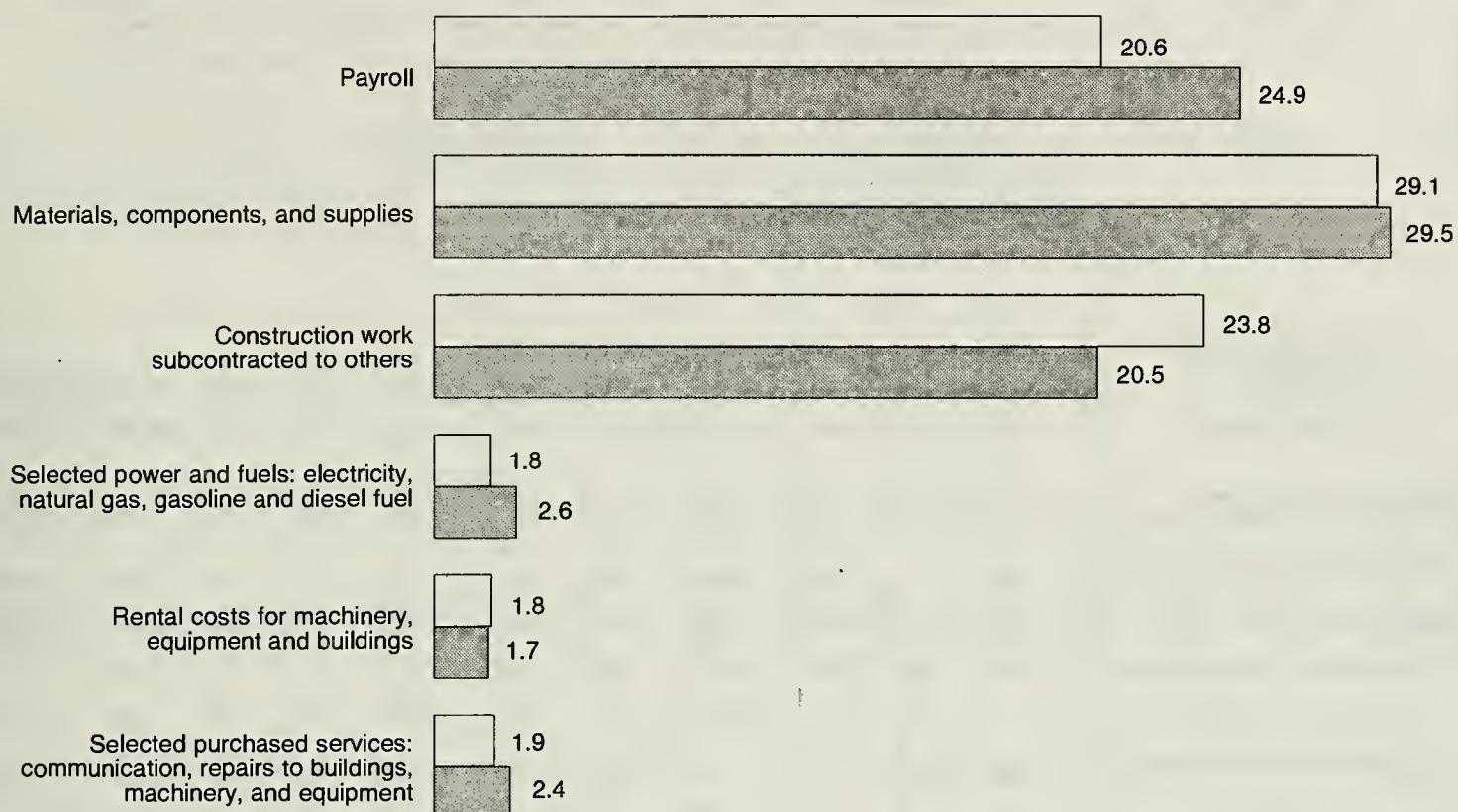


Figure 2. Value of Construction Work by Type of Construction
(Percent)

1987
1982

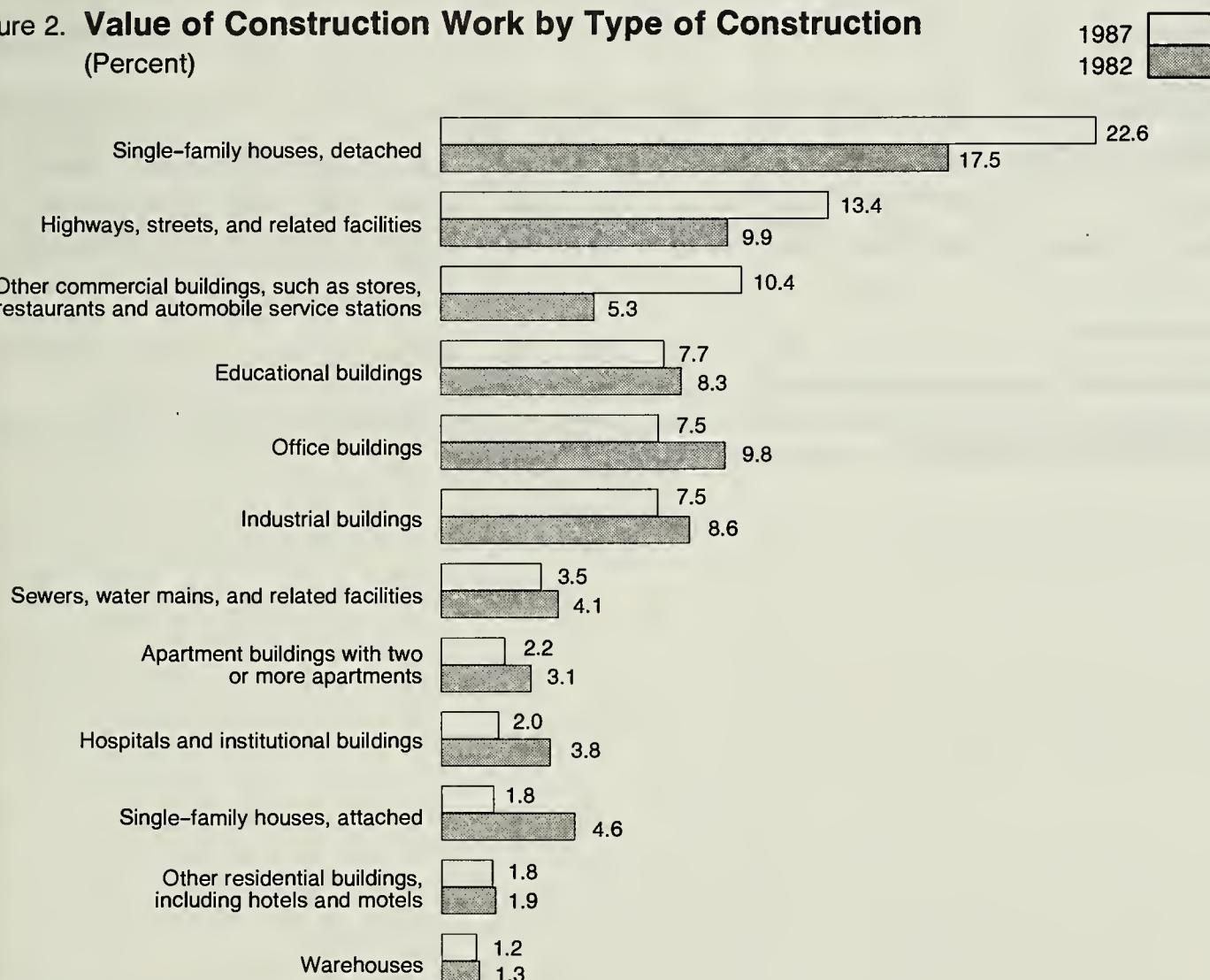


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	10 789	8 165	29 139	2 787 666	7 082	7 042	362 027	3 707	1 123	29 139	2 425 639	2	2
15, 16, 17	Construction industries -----	10 392	7 771	28 997	2 707 912	6 750	6 663	290 763	3 642	1 108	28 997	2 417 149	2	2
15	Building construction—General contractors and operative builders -----	3 023	1 956	7 787	1 114 703	1 761	1 646	144 865	1 262	310	7 787	969 838	4	4
16	Heavy construction other than building construction—contractors -----	381	188	6 407	587 987	130	128	11 597	251	60	6 407	576 390	2	2
17	Special trade contractors -----	6 988	5 627	14 803	1 005 223	4 859	4 889	134 302	2 129	738	14 803	870 921	2	2
1711	Plumbing, heating, and air-conditioning --	1 046	739	3 276	233 205	535	542	21 034	511	197	3 276	212 171	4	4
1731	Electrical work-----	890	572	2 805	226 289	478	477	16 936	412	95	2 805	209 353	4	3
6552	Land subdividers and developers, n.e.c. ² -----	388	(S)	(S)	(S)	332	379	71 264	56	(S)	(S)	(S)	(S)	(S)
	1982													
	Construction industries and land subdividers and developers -----	8 405	6 383	30 390	2 027 490	4 909	4 945	203 557	3 496	1 438	30 390	1 823 933	2	2
15, 16, 17	Construction Industries -----	8 183	6 173	30 063	1 983 413	4 723	4 737	177 931	3 460	1 436	30 063	1 805 482	2	2
15	Building construction—General contractors and operative builders -----	2 016	1 246	9 398	809 662	783	752	62 529	1 233	494	9 398	747 133	3	3
16	Heavy construction other than building construction—contractors -----	330	202	5 830	378 522	143	143	9 664	187	59	5 830	368 858	2	2
17	Special trade contractors -----	5 837	4 725	14 835	795 229	3 797	3 842	105 738	2 040	883	14 835	689 491	3	3
1711	Plumbing, heating, and air-conditioning --	783	530	3 079	187 635	328	338	14 207	455	192	3 079	173 428	6	5
1731	Electrical work-----	641	424	2 752	149 305	287	286	10 494	354	138	2 752	138 811	5	5
6552	Land subdividers and developers, n.e.c. ² -----	217	208	323	44 073	186	208	25 626	31	-	323	18 447	21	27

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	10 789	8 165	29 139	2 787 666	7 082	7 042	362 027	3 707	1 123	29 139	2 425 639	2	2
\$10,000,000 or more	28	1	4 024	(D)	1	—	(D)	27	1	4 024	567 365	(W)	(W)
\$5,000,000 to \$9,999,999	45	5	2 344	(D)	2	4	(D)	43	1	2 344	308 336	2	3
\$2,500,000 to \$4,999,999	97	—	3 588	(D)	1	—	(D)	96	—	3 588	336 291	3	10
\$1,000,000 to \$2,499,999	362	46	6 329	1 798 075	28	23	71 334	334	23	6 329	514 749	4	6
\$500,000 to \$999,999	448	161	4 010	310 176	58	49	39 106	390	112	4 010	271 070	7	8
\$250,000 to \$499,999	(S)	(S)	(S)	(S)	153	146	52 324	(S)	(S)	(S)	(S)	(S)	(S)
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	521	502	80 026	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	667	674	47 565	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	941	954	33 705	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	(S)	(S)	(S)	(S)	4 710	4 690	37 969	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 574	1 568	25 580	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 098	1 099	7 944	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	790	772	2 909	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	1 248	1 251	1 536	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	8 405	6 383	30 390	2 027 490	4 909	4 945	203 557	3 496	1 438	30 390	1 823 933	2	2
\$10,000,000 or more	18	—	4 710	(D)	—	—	—	18	—	4 710	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	42	6	2 621	(D)	2	2	(D)	40	4	2 621	660 466	(W)	(W)
\$2,500,000 to \$4,999,999	70	5	3 067	(D)	—	—	—	70	5	3 067	241 562	(W)	(W)
\$1,000,000 to \$2,499,999	225	25	5 025	1 252 743	13	16	34 296	212	9	5 025	316 419	3	4
\$500,000 to \$999,999	368	125	4 546	254 754	30	34	20 797	338	91	4 546	233 957	6	7
\$250,000 to \$499,999	535	220	3 654	192 621	75	75	25 858	460	145	3 654	166 763	8	8
\$100,000 to \$249,999	1 102	672	3 893	178 135	283	288	43 306	819	384	3 893	134 829	8	7
\$50,000 to \$99,999	1 086	788	1 592	78 449	422	435	29 245	664	353	1 592	49 204	9	6
\$25,000 to \$49,999	1 059	910	720	38 255	675	692	23 777	384	218	720	14 478	11	10
Less than \$25,000	3 899	3 631	561	32 530	3 409	3 403	26 278	490	228	561	6 252	8	9
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 128	1 136	17 775	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	821	818	5 533	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	820	814	2 330	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	640	635	640	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987								
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work	
			All	Construction workers	All employees	Construction workers				
		A	B	C	D	E	F	G	H	
15, 16, 17	Construction industries and land subdividers and developers	3 707	29 139	23 233	499 966	370 116	39 049	2 347 300	1 769 937	
15	Construction industries:									
152	Building construction—General contractors and operative builders:									
1521	General contractors, residential buildings:									
1522	Single-family houses	790	3 035	2 410	38 394	28 077	3 630	213 351	155 698	
	Other residential buildings	23	(S)	(S)	(S)	(S)	(S)	(S)	(S)	
1531	Operative builders	145	925	514	15 043	6 429	833	152 276	93 809	
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses	63	643	476	11 640	8 069	687	77 820	41 793	
1542	Nonresidential buildings, n.e.c.	241	3 100	2 327	57 180	38 344	3 536	471 352	228 998	
16	Heavy construction other than building construction— contractors:									
1611	Highway and street construction	77	2 744	2 291	58 312	44 696	4 392	291 476	219 014	
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction	*6	513	425	(D)	(D)	1 018	(D)	(D)	
1623	Water, sewer, and utility lines	66	1 820	1 474	35 054	25 992	3 039	136 787	122 492	
1629	Heavy construction, n.e.c.	102	1 330	1 172	27 452	24 522	2 081	91 129	79 812	
17	Special trade contractors:									
1711	Plumbing, heating, and air-conditioning	511	3 276	2 490	54 984	40 725	4 612	205 093	181 582	
1721	Painting and paper hanging	176	814	709	11 413	9 644	1 028	31 799	30 419	
1731	Electrical work	412	2 805	2 117	59 240	42 336	3 662	207 144	190 059	
174	Masonry, stonework, tile setting, and plastering:									
1741	Masonry, stone setting, and other stonework	114	728	654	10 176	8 899	830	30 776	29 280	
1742	Plastering, drywall, and insulation work	147	1 801	1 580	27 465	21 960	2 572	83 570	79 524	
1743	Terrazzo, tile, marble, and mosaic work	28	143	106	2 189	1 624	*214	7 783	7 681	
175	Carpentry and floor work:									
1751	Carpentry	102	419	365	4 980	3 470	511	17 146	14 511	
1752	Floor laying and other floor work	54	156	117	1 912	1 553	132	12 251	10 634	
1761	Roofing, siding, and sheet metal work	141	1 518	1 250	24 041	17 073	1 936	89 298	85 598	
1771	Concrete work	136	1 339	1 148	20 621	16 994	1 662	74 546	69 906	
1781	Water well drilling	59	191	143	3 000	2 060	204	10 787	10 560	
179	Miscellaneous special trade contractors:									
1791	Structural steel erection	22	174	157	2 994	2 588	239	6 637	6 403	
1793	Glass and glazing work	17	131	95	2 173	1 561	185	8 543	8 505	
1794	Excavation work	40	225	186	3 309	2 314	326	10 979	10 797	
1795	Wrecking and demolition work	*11	93	*82	1 025	746	118	4 542	*3 900	
1796	Installing building equipment, n.e.c.	8	49	39	1 914	1 600	72	5 082	5 055	
1799	Special trade contractors, n.e.c.	151	941	768	11 825	8 678	1 361	37 849	35 112	
6552	Land subdividers and developers, n.e.c.	56	(S)	(S)	(S)	(S)	(S)	(S)	(S)	

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.

Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	1982			Relative standard error of estimate (percent) for column—			1987 SIC code
						All employees**	Total construction receipts ¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 071 100	749 009	577 363	43 671	35 992	392 459	30 390	1 734 554	846 845	2	2	4	15, 16, 17
81 416 (S)	78 204 (S)	57 653 (S)	1 804 (S)	1 541 (S)	25 428 (S)	3 159 (S)	155 897 (S)	64 290 (D)	7 (S)	8 (S)	16 (S)	152 1521 1522
42 561	51 568	58 466	761	1 316	8 167	1 106	88 020	34 625	15	14	37	1531
25 675 139 220	16 892 97 553	36 026 242 353	1 029 4 350	*622 3 856	*8 849 30 309	921 4 024	87 363 338 223	24 113 129 901	14 7	13 9	51 10	154 1541 1542
												16
137 171	87 646	72 462	8 112	9 119	106 808	2 277	177 444	93 515	2	2	3	1611
25 315 82 101 46 804	(D) 41 923 33 428	(D) 14 295 11 317	(D) 6 320 6 588	(D) 2 688 2 969	(D) 47 769 23 701	(D) 2 315 1 186	(D) 120 830 60 908	(D) 82 133 40 549	16 5 6	(D) 7 6	(D) 5 24	162 1622 1623 1629
												17
111 772	76 888	23 510	3 706	3 896	35 713	3 079	168 361	79 865	4	4	17	1711
21 068	9 618	1 379	*784	510	4 601	981	24 971	17 912	13	13	40	1721
109 824	82 443	17 085	2 210	3 208	31 090	2 752	135 494	62 797	4	3	12	1731
18 718 51 118 5 041	10 683 29 987 (D)	1 495 4 045 102	88 1 101 75	517 1 055 *17	5 747 7 916 716	644 1 720 *286	22 561 66 714 6 692	13 634 43 408 4 104	13 8 29	10 6 30	36 35 41	174 1741 1742 1743
6 523 4 291	11 090 (D)	2 635 1 617	*535 132	*336 *70	2 154 (S)	760 171	28 639 6 686	11 901 3 649	17 27	12 34	52 54	175 1751 1752
53 825	34 978	3 700	1 175	1 263	15 028	1 030	44 621	24 406	7	12	22	1761
41 571	30 128	4 640	826	1 042	13 650	1 001	43 968	23 589	9	9	17	1771
6 278	4 517	(S)	62	158	*5 956	171	8 362	4 879	27	23	29	1781
4 736 5 118 9 236 3 480 3 933 23 986	1 989 5 014 1 921 (D) 1 122 16 072	234 38 *181 642 27 2 737	(D) 151 397 (S) 37 807	(D) 403 *651 (D) 14 644	1 515 403 960 (D) 159 6 735	237 108 48 490 (D) 171 744	11 395 5 450 37 429 *766 11 012 (D)	8 357 2 768 22 *725 8 400 19 544	12 (W) 16 40 (W) 11	15 (W) 42 43 (D) 10	(D) 1791 1793 1794 1795 28 1796 29	179 1793 1794 1795 28 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	323	10 861	7 272	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	3 707	3 496	3 375	2 336	2	3	4	5
Proprietors and working partners	1 123	1 438	2 270	1 609	7	5	7	7
All employees**	29 139	30 390	30 032	23 787	2	2	2	5
Construction workers:								
March	21 575	23 785	23 801	17 866	2	2	2	3
May	23 484	24 551	26 469	20 207	2	2	2	5
August	25 287	26 424	27 201	22 756	2	2	2	7
November	22 588	24 531	26 942	20 814	2	2	2	6
Average	23 233	25 156	26 121	20 634	2	2	2	5
Other employees:								
March	5 862	5 040	3 820	2 998	2	3	3	4
May	5 931	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
August	6 054	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	5 775	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	5 905	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	8 677	9 152	(NA)	(NA)	2	2	(NA)	(NA)
April to June	10 179	9 727	(NA)	(NA)	2	2	(NA)	(NA)
July to September	10 754	10 434	(NA)	(NA)	2	2	(NA)	(NA)
October to December	9 438	9 644	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	39 049	38 958	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	499 966	453 335	306 872	163 560	1	1	1	3
Payroll, construction workers	370 116	359 365	252 822	133 401	1	2	1	3
Payroll, other employees	129 849	93 970	54 050	30 159	2	2	2	3
First quarter payroll, all employees	111 562	101 131	65 576	(NA)	2	2	1	(NA)
Employer costs for fringe benefits, all employees	108 448	84 528	54 125	(NA)	2	2	1	(NA)
Legally required expenditures	78 707	60 922	34 508	(NA)	2	2	1	(NA)
Voluntary expenditures	29 741	23 605	19 616	(NA)	2	2	1	(NA)
Dollar value of business done	2 425 639	1 823 933	1 228 220	751 594	2	2	2	4
Value of construction work ¹	2 347 300	1 734 554	1 180 749	688 245	2	2	2	4
Value of construction work subcontracted in from others	575 128	415 535	297 198	135 811	3	3	3	5
Land receipts ²	28 166	18 048	(NA)	(NA)	12	11	(NA)	(NA)
Other business receipts	50 172	71 330	47 471	63 349	9	3	4	3
Net value of construction†	1 769 937	1 360 448	963 978	525 490	2	2	2	3
Value added††	1 071 100	846 845	555 831	302 172	2	2	2	3
Selected costs	1 326 372	959 039	653 519	394 689	2	2	2	5
Materials, components, and supplies ³	705 932	537 369	396 499	231 934	2	2	2	5
Construction work subcontracted to others	577 363	374 105	216 771	162 755	3	3	3	7
Selected power, fuels, and lubricants	43 076	47 563	40 248	(NA)	2	2	1	(NA)
Electricity	5 076	4 835	9 032	(NA)	3	4	1	(NA)
Natural gas	2 263	2 794	5 886	(NA)	3	5	1	(NA)
Gasoline and diesel fuel	31 641	37 146	21 391	(NA)	2	2	2	(NA)
On highway use	22 312	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	9 329	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	4 095	2 787	3 940	(NA)	4	5	4	(NA)
Rental cost for machinery, equipment, and buildings	43 671	31 043	17 331	(NA)	3	3	2	(NA)
For machinery and equipment	30 178	24 783	14 154	8 069	4	3	2	4
For buildings	13 493	6 259	3 177	(NA)	4	5	6	(NA)
Selected purchased services	45 965	43 165	37 284	(NA)	3	2	2	(NA)
Communication services	10 092	9 531	5 076	(NA)	3	3	3	(NA)
Repairs to buildings and other structures	2 610	1 795	1 775	(NA)	15	6	15	(NA)
Repairs to machinery and equipment	33 263	31 839	30 433	(NA)	3	2	1	(NA)
Ownership of construction projects:								
Value of construction work	2 347 300	1 734 554	1 180 749	688 245	2	2	2	4
Government owned	858 817	509 711	367 665	218 731	4	3	1	3
Federal	343 123	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
State and local	515 693	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	1 488 482	1 224 842	813 084	469 514	3	2	2	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	386 825	450 076	3	2
Capital expenditures, other than land	35 992	50 212	4	3
New	23 260	34 419	4	3
Used	12 731	15 793	8	4
Retirements and disposition of depreciable assets	30 357	16 611	7	6
End-of-year gross book value of depreciable assets	392 459	483 676	3	2
Depreciation charges during year	45 104	58 467	3	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	63 703	120 914	9	3
Capital expenditures, other than land	5 362	7 756	12	7
New buildings and other structures	2 160	6 542	11	8
Used buildings and other structures	3 201	1 213	19	12
Retirements and disposition of depreciable assets	2 342	1 822	17	12
End-of-year gross book value of depreciable assets	66 722	126 847	9	2
Depreciation charges during year	6 066	6 555	17	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	323 121	329 161	3	2
Capital expenditures, other than land	30 630	42 456	4	3
New machinery and equipment, including automobiles and trucks	21 099	27 876	4	3
New automobiles and trucks, intended primarily for highway use	11 089	10 711	6	5
Used machinery and equipment, including automobiles and trucks	9 530	14 579	9	4
Retirements and disposition of depreciable assets	28 015	14 788	7	7
End-of-year gross book value of depreciable assets	325 736	356 829	3	2
Depreciation charges during year	39 038	51 911	3	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	3 707	2
Value of construction work	2 347 300	2
Establishments with inventories:		
Number	1 721	5
Value of construction work	1 287 398	4
Inventories ¹ :		
End of 1987, materials and supplies	38 661	6
End of 1986, materials and supplies	40 908	8
Establishments with no inventories:		
Number	1 553	5
Value of construction work	803 848	4
Establishments not reporting:		
Number	433	11
Value of construction work	256 054	6

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	3 707	(S)	720	413	237	53	19	4	-	-
All employees**	29 139	(S)	4 692	5 306	6 931	3 576	2 983	1 423	-	-
Payroll, all employees	499 966	(S)	68 948	90 333	129 773	71 188	58 490	31 506	-	-
Construction worker hours (thousands)	39 049	(S)	5 098	6 818	9 356	5 741	4 560	2 610	-	-
Dollar value business done	2 425 639	(S)	346 860	384 782	585 403	336 577	310 188	123 309	-	-
Value of construction work ¹	2 347 300	(S)	330 750	368 111	565 110	330 687	306 825	123 309	-	-
Net value of construction work ¹	1 769 937	(S)	253 555	274 582	426 169	255 939	200 866	96 237	-	-
Value added††	1 071 100	(S)	159 349	169 943	254 189	158 406	125 375	60 378	-	-
Cost of materials, components, supplies, and fuels	749 009	(S)	105 296	116 843	183 623	103 424	78 854	35 859	-	-
Cost of construction work subcontracted to others	577 363	(S)	77 195	93 529	138 940	74 747	105 959	27 072	-	-
Rental cost for machinery, equipment, and buildings	43 671	(S)	4 935	5 898	9 907	8 472	11 385	(D)	-	-
Capital expenditures, other than land	35 992	(S)	3 768	4 867	7 344	8 726	6 670	(D)	-	-
End-of-year gross book value of depreciable assets	392 459	(S)	48 343	53 273	73 701	101 521	56 858	(D)	-	-
1982										
All employees**	30 390	4 205	4 588	5 357	6 707	3 198	3 215	3 120	(D)	(D)
Value of construction work ¹	1 734 554	201 341	226 545	282 444	426 249	211 077	217 375	169 522	(D)	(D)
Value added††	846 845	89 450	107 669	136 477	198 099	110 799	105 257	99 092	(D)	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	(S)	7	6	4	2	(W)	(W)	-	-
Net value of construction work ¹	2	(S)	10	6	3	1	(W)	(W)	-	-
Capital expenditures, other than land	4	(S)	20	18	6	1	1	(D)	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	3 707	(S)	(S)	(S)	(S)	(S)	390	334	96	43	27
All employees**	29 139	(S)	(S)	(S)	(S)	(S)	4 010	6 329	3 588	2 344	4 024
Payroll, all employees	499 966	(S)	(S)	(S)	(S)	(S)	63 693	111 599	70 577	56 909	92 914
Construction worker hours (thousands)	39 049	(S)	(S)	(S)	(S)	(S)	4 789	8 242	5 190	3 755	6 527
Dollar value of business done	2 425 639	(S)	(S)	(S)	(S)	(S)	271 070	514 749	336 291	308 336	567 365
Value of construction work ¹	2 347 300	(S)	(S)	(S)	(S)	(S)	254 756	490 206	328 941	295 859	560 945
Net value of construction work ¹	1 769 937	(S)	(S)	(S)	(S)	(S)	212 138	370 104	250 199	213 816	351 987
Value added††	1 071 100	(S)	(S)	(S)	(S)	(S)	134 543	226 094	156 912	128 018	205 455
Cost of materials, components, supplies, and fuels	749 009	(S)	(S)	(S)	(S)	(S)	89 515	158 270	99 119	242 610	(D)
Cost of construction work subcontracted to others	577 363	(S)	(S)	(S)	(S)	(S)	42 618	120 102	78 741	82 042	208 958
Rental cost for machinery, equipment, and buildings	43 671	(S)	(S)	(S)	(S)	(S)	4 287	7 440	5 584	6 605	13 478
Capital expenditures, other than land	35 992	(S)	(S)	(S)	(S)	(S)	3 153	6 162	5 417	5 810	7 838
End-of-year gross book value of depreciable assets	392 459	(S)	(S)	(S)	(S)	(S)	39 191	61 483	71 743	76 056	50 030
1982											
All employees**	30 390	561	720	1 592	3 893	3 654	4 546	5 025	3 067	2 621	4 710
Value of construction work ¹	1 734 554	6 192	14 203	48 212	130 095	161 787	224 551	301 065	233 063	268 255	347 129
Value added††	846 845	2 967	7 548	25 458	64 853	81 246	113 478	137 727	112 596	127 569	173 401
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	(S)	(S)	(S)	7	4	3	2
Net value of construction work ¹	2	(S)	(S)	(S)	(S)	(S)	(S)	8	6	8	(W)
Capital expenditures, other than land	4	(S)	(S)	(S)	(S)	(S)	(S)	25	12	5	2

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	2 347 300	1 552 807	458 052	238 692	2	3	3	4
Building construction	1 592 394	1 162 972	305 873	120 705	3	4	4	4
Single-family houses	574 231	455 460	74 789	43 982	5	6	7	8
Single-family houses, detached	531 216	421 145	68 996	41 073	5	7	7	8
Single-family houses, attached	43 015	34 315	5 793	2 909	13	14	28	12
Apartment buildings with two or more apartments	51 583	38 530	5 302	7 751	8	10	11	17
Other residential buildings, including hotels and motels	41 030	29 271	5 660	6 097	18	24	19	18
Hotels and motels	24 943	20 250	1 929	2 762	25	31	7	22
Other residential buildings, excluding hotels and motels	16 087	9 021	3 731	3 335	23	33	29	27
Office buildings	177 046	114 115	47 670	15 260	9	13	8	7
Other commercial buildings such as stores, restaurants, and automobile service stations	244 229	175 071	49 583	19 574	6	7	10	9
Industrial buildings and warehouses	203 527	147 001	42 154	14 371	5	7	7	5
Industrial buildings	175 069	124 092	38 374	12 602	6	8	8	6
Warehouses	28 458	22 909	3 780	1 769	7	9	8	13
Religious buildings	27 886	20 132	5 370	2 383	12	16	6	15
Educational buildings	179 853	123 236	50 663	5 952	5	5	9	6
Hospitals and institutional buildings	45 697	27 460	15 194	3 042	8	5	21	9
Farm buildings	4 068	3 165	566	336	20	24	26	28
Amusement, social, and recreational buildings	13 787	10 001	2 825	960	9	11	13	14
Other nonresidential buildings	26 607	19 524	6 091	990	6	7	14	8
Land development for buildings	2 845	(NA)	(NA)	37	(NA)	(NA)	(NA)	(NA)
Nonbuilding construction	660 000	389 835	152 179	117 985	2	2	3	8
Highways, streets, and related facilities	313 765	183 093	99 089	31 582	2	2	3	11
Parking areas including private driveways	12 049	5 835	2 768	3 445	5	7	(W)	8
Fencing	13 429	10 984	1 111	1 333	16	17	17	14
Bridges, tunnels, and elevated highways	52 775	25 028	(D)	(D)	4	8	(D)	(D)
Conservation and development construction	8 420	6 418	*313	1 689	11	8	41	16
Power and communication transmission lines, towers, and related facilities	25 286	14 920	2 415	7 950	8	6	9	18
Sewers, water mains, and related facilities	82 115	56 517	12 818	12 779	6	7	5	15
Sewers, sewer lines, and related facilities	38 634	25 515	5 692	7 426	6	6	6	24
Water mains and related facilities	43 481	31 002	7 125	5 353	8	10	5	11
Pipeline, other than sewer or water lines	43 063	26 618	2 104	*14 340	17	2	18	52
Power plants	7 850	2 488	821	4 539	5	5	4	7
Sewage treatment and water treatment plants	12 677	11 747	(D)	(D)	18	20	(D)	(D)
Sewage treatment plants	10 817	10 440	(D)	(D)	22	22	(D)	(D)
Water treatment plants	1 860	1 307	(D)	(D)	(W)	(W)	(D)	(D)
Oilfields	7 333	3 733	526	3 074	6	7	18	4
Earthmoving, nonbuilding	5 632	4 113	*1 430	(S)	20	14	43	(S)
Other nonbuilding construction	75 406	63 369	19 175	37 254	14	15	18	19
Construction work, n.s.k.	94 904	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
1982								
Value of construction work¹	1 734 554	1 397 130	(NA)	337 423	2	2	(NA)	2
Building construction	1 147 067	997 565	(NA)	149 501	2	2	(NA)	3
Single-family houses	383 574	329 675	(NA)	53 899	4	4	(NA)	6
Single-family houses, detached	302 938	255 152	(NA)	47 785	5	4	(NA)	7
Single-family houses, attached	80 636	74 522	(NA)	6 113	6	6	(NA)	7
Apartment buildings with two or more apartments	53 592	46 470	(NA)	7 121	12	14	(NA)	14
Other residential buildings, including hotels and motels	32 392	27 307	(NA)	5 085	7	7	(NA)	9
Office buildings	169 212	150 644	(NA)	18 567	3	4	(NA)	5
Other commercial buildings such as stores, restaurants, and automobile service stations	92 232	81 301	(NA)	10 931	6	7	(NA)	9
Industrial buildings and warehouses	171 635	156 303	(NA)	15 331	4	4	(NA)	9
Industrial buildings	148 562	135 448	(NA)	13 114	4	3	(NA)	11
Warehouses	23 072	20 855	(NA)	2 216	10	10	(NA)	20
Religious buildings	12 507	9 825	(NA)	2 681	11	10	(NA)	17
Educational buildings	143 636	117 025	(NA)	26 611	2	2	(NA)	5
Hospitals and institutional buildings	65 397	59 809	(NA)	5 588	3	2	(NA)	17
Farm buildings	3 236	2 721	(NA)	515	24	26	(NA)	19
Amusement, social, and recreational buildings	7 516	6 425	(NA)	1 090	13	13	(NA)	26
Other nonresidential buildings	12 133	10 055	(NA)	2 078	5	6	(NA)	5
Nonbuilding construction	458 246	293 909	(NA)	164 337	2	2	(NA)	2
Highways, streets, and related facilities	172 190	118 484	(NA)	53 706	3	4	(NA)	4
Bridges, tunnels, and elevated highways	7 863	(D)	(NA)	(D)	6	(D)	(NA)	(D)
Conservation and development construction	4 526	2 809	(NA)	1 717	(W)	(W)	(NA)	(W)
Power and communication transmission lines, towers, and related facilities	28 537	10 249	(NA)	18 287	7	14	(NA)	2
Sewers, water mains, and related facilities	71 815	44 965	(NA)	26 849	3	5	(NA)	2
Sewers, sewer lines, and related facilities	36 142	23 481	(NA)	12 661	3	4	(NA)	2
Water mains and related facilities	35 672	21 484	(NA)	14 187	6	9	(NA)	2
Pipeline, other than sewer or water lines	58 415	39 876	(NA)	18 539	2	2	(NA)	2
Heavy industrial facilities	46 823	24 798	(NA)	22 025	2	1	(NA)	4
Blast furnaces, petroleum refineries, and chemical complexes	21 067	13 978	(NA)	7 088	3	1	(NA)	10
Power plants	25 756	10 819	(NA)	14 936	1	(W)	(NA)	2
Sewage treatment and water treatment plants	20 911	(D)	(NA)	(D)	3	(D)	(NA)	(D)
Sewage treatment plants	16 207	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Water treatment plants	4 704	(D)	(NA)	(D)	10	(D)	(NA)	(D)
Oilfields	25 797	15 966	(NA)	9 831	9	9	(NA)	14
Other nonbuilding construction	21 363	13 837	(NA)	7 523	20	21	(NA)	36
Construction work, n.s.k.	129 240	105 656	(NA)	23 583	7	7	(NA)	9

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					A	B	C	D
							E	F
								G
	Construction industries and land subdividers and developers -----	3 707	23 233	39 049	21 575	8 677	23 484	10 179
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	790	2 410	3 630	2 366	841	2 513	962
1522	Other residential buildings -----	23	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders -----	145	514	833	505	198	543	218
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	63	476	687	432	146	479	182
1542	Nonresidential buildings, n.e.c. -----	241	2 327	3 536	2 231	826	2 228	949
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	77	2 291	4 392	1 959	840	2 331	1 179
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	*6	425	1 018	(D)	(D)	428	256
1623	Water, sewer, and utility lines -----	66	1 474	3 039	1 270	598	1 555	783
1629	Heavy construction, n.e.c. -----	102	1 172	2 081	903	384	1 327	588
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	511	2 490	4 612	2 424	1 110	2 509	1 195
1721	Painting and paper hanging -----	176	709	1 028	692	269	640	250
1731	Electrical work-----	412	2 117	3 662	2 122	878	2 055	932
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework-----	114	654	830	643	213	686	198
1742	Plastering, drywall, and insulation work--	147	1 580	2 572	1 648	635	1 627	675
1743	Terrazzo, tile, marble, and mosaic work -	28	106	*214	138	*67	99	*43
175	Carpentry and floor work:							
1751	Carpentry -----	102	365	511	263	99	392	134
1752	Floor laying and other floor work -----	54	117	132	114	34	114	28
1761	Roofing, siding, and sheet metal work-----	141	1 250	1 936	1 157	430	1 192	484
1771	Concrete work-----	136	1 148	1 662	986	343	1 102	394
1781	Water well drilling -----	59	143	204	144	51	145	53
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	22	157	239	133	52	146	60
1793	Glass and glazing work -----	17	95	185	101	50	93	45
1794	Excavation work -----	40	186	326	182	72	191	83
1795	Wrecking and demolition work-----	*11	*82	118	63	*24	57	*29
1796	Installing building equipment, n.e.c. -----	8	39	72	37	18	39	16
1799	Special trade contractors, n.e.c. -----	151	768	1 361	609	255	870	398
6552	Land subdividers and developers, n.e.c. --	56	(S)	(S)	(S)	(D)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—												1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K			
H	I	J	K													
25 287	10 754	22 588	9 438	2	2	2	2	2	2	2	2	2	2	2	2	15, 16, 17
																15
2 522 (S)	961 (S)	2 239 (S)	865 (S)	8 (S)	11 (S)	9 (S)	11 (S)	8 (S)	12 (S)	8 (S)	12 (S)	8 (S)	12 (S)	8 (S)	12 (S)	152 1521 1522
522	216	485	200	17	18	23	21	18	21	17	20	19	21	19	21	1531
495 2 617	170 978	499 2 235	188 781	14 7	14 9	14 6	16 9	11 8	14 10	18 7	14 10	14 8	14 9	14 9	14 9	154 1541 1542
																16
2 713	1 335	2 159	1 036	2	4	2	4	2	4	3	4	2	5	5	5	1611
476 1 465 1 385	287 786 639	(D) 1 608 1 074	(D) 871 468	17 5	12 6	(D) 4	(D) 5	21 8	16 10	16 7	12 7	(D) 4	(D) 5	(D) 5	(D) 5	162 1622 1623 1629
																17
2 599	1 201	2 427	1 104	5	6	5	7	5	7	5	7	5	7	5	7	1711
724	261	796	247	14	16	15	19	15	18	17	20	17	20	17	16	1721
2 169	935	2 123	915	4	5	5	6	4	6	4	5	5	5	6	6	1731
																174
710 1 678 101	248 692 *57	576 1 366 88	169 569 46	13 8 34	13 9 46	14 7 39	19 9 49	16 8 34	13 11 52	13 9 31	13 11 44	15 9 30	15 9 38	18 12 38	1742 1743	
456 142	149 41	349 98	127 27	18 24	20 23	14 24	17 30	18 24	20 19	21 26	23 20	23 29	23 38	25 38	1751 1752	
1 379	530	1 273	492	7	10	6	10	6	10	7	9	8	11	11	11	1761
1 262	486	1 244	437	9	12	9	11	9	10	10	13	11	11	14	14	1771
157	50	129	48	25	33	27	35	27	36	23	23	25	39	39	39	1781
182 95 188 *118 41 938	68 45 84 39 17 424	168 93 185 91 41 657	58 44 85 24 19 282	13 19 21 41 19 10	15 19 32 39 2 21	16 (W) 22 36 (W) 11	20 24 34 53 (W) 18	14 20 20 27 (W) 9	17 20 32 44 (W) 23	9 (W) 22 44 (W) 10	14 18 32 58 (W) 23	15 18 21 40 (W) 11	12 16 32 20 4 18	179 1793 1794 1795 1796 1799		
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction Industries and land subdividers and developers	7.9	17.2	1 680.8	101.0	.213	.319	.246	.019
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	3.8	12.7	1 506.2	88.5	.180	.367	.270	.008
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	6.4	16.3	1 620.6	296.3	.099	.339	.384	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	10.2	18.1	1 443.3	163.5	.150	.217	.463	.013
1542	Nonresidential buildings, n.e.c.	12.9	18.4	1 519.6	202.6	.121	.207	.514	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	35.6	21.3	1 917.1	127.2	.200	.301	.249	.028
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	*85.5	(D)	2 395.3	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	27.6	19.3	2 061.7	92.8	.256	.306	.105	.046
1629	Heavy construction, n.e.c.	13.0	20.6	1 775.6	77.8	.301	.367	.124	.072
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6.4	16.8	1 852.2	82.4	.268	.375	.115	.018
1721	Painting and paper hanging	4.6	14.0	1 449.9	44.9	.359	.302	.043	.025
1731	Electrical work	6.8	21.1	1 729.8	97.8	.286	.398	.082	.011
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	6.4	14.0	1 269.1	47.1	.331	.347	.049	.003
1742	Plastering, drywall, and insulation work	12.3	15.2	1 627.8	52.9	.329	.359	.048	.013
1743	Terrazzo, tile, marble, and mosaic work	5.1	15.3	*2 018.9	73.4	.281	(D)	.013	.010
175	Carpentry and floor work:								
1751	Carpentry	4.1	11.9	1 400.0	47.0	.290	.647	.154	.031
1752	Floor laying and other floor work	2.9	12.3	1 128.2	104.7	.156	(D)	.132	.011
1761	Roofing, siding, and sheet metal work	10.8	15.8	1 548.8	71.4	.269	.392	.041	.013
1771	Concrete work	9.8	15.4	1 447.7	64.9	.277	.404	.062	.011
1781	Water well drilling	3.2	15.7	1 426.6	75.4	.278	.419	(S)	.006
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	7.9	17.2	1 522.3	42.3	.451	.300	.035	(D)
1793	Glass and glazing work	7.7	16.6	1 947.4	89.9	.254	.587	.004	.018
1794	Excavation work	5.6	14.7	1 752.7	59.0	.301	.175	*.016	.036
1795	Wrecking and demolition work	*8.5	11.0	*1 439.0	55.4	.226	(D)	.141	(S)
1796	Installing building equipment, n.e.c.	6.1	39.1	1 846.2	130.3	.377	.221	.005	.007
1799	Special trade contractors, n.e.c.	6.2	12.6	1 772.1	49.3	.312	.425	.072	.021
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

CONTENTS

Utah

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings-----	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done-----	3
2. Value of Construction Work by Type of Construction -----	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982 -----	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982 -----	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982 -----	6
4. Detailed Statistics: 1987 and Earlier Census Years -----	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982-----	9
6. Value of Inventories: 1987 and 1986-----	9
7. Selected Statistics by Employment Size Class: 1987 and 1982 -----	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982 -----	10
9. Value of Construction Work by Type of Construction: 1987 and 1982-----	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987 -----	12
11. Selected Industry Ratios in This State: 1987 -----	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987-----	15

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Utah. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 14,950 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$3.3 billion in total value of business done.

Most of the 14,950 construction establishments were small. Of the total, 11,110 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,491 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 70 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.8 billion on total dollar value of business done. Of this amount, \$2.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$732 million, leaving net value of construction work of \$2.0 billion. In addition, these establishments paid out \$964 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.2 billion. (See Introduction and appendices for explanation of terms.)

There were 3,840 establishments with total employment averaging 27,287 during the year. Total payroll for 1987 was \$535 million. Total hours worked by construction workers during the year were 35.6 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 11,110 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$551 million. Most of these establishments, about 73 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. Selected Costs Per Dollar Value of Business Done

(Percent)

1987
1982

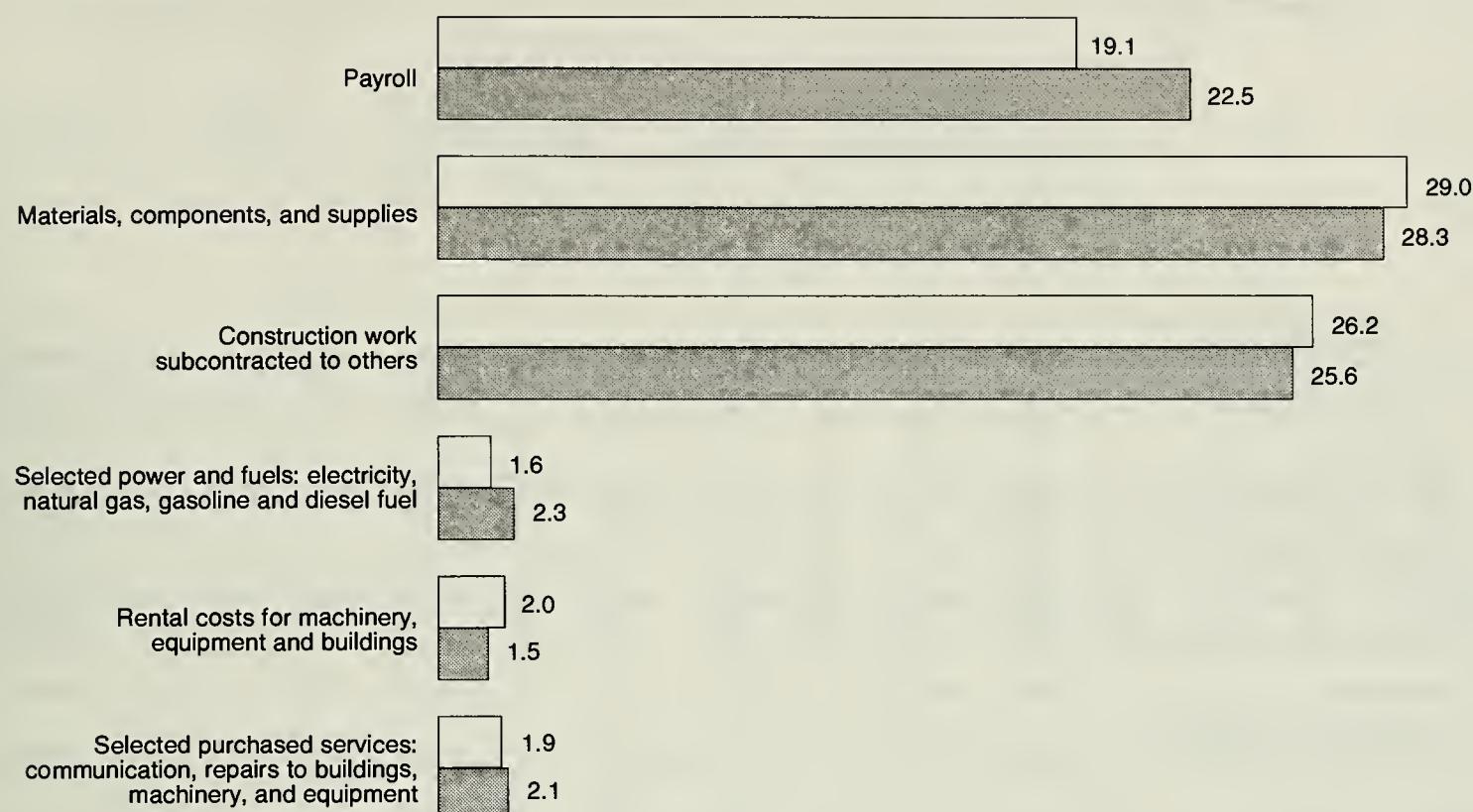


Figure 2. Value of Construction Work by Type of Construction

(Percent)

1987
1982

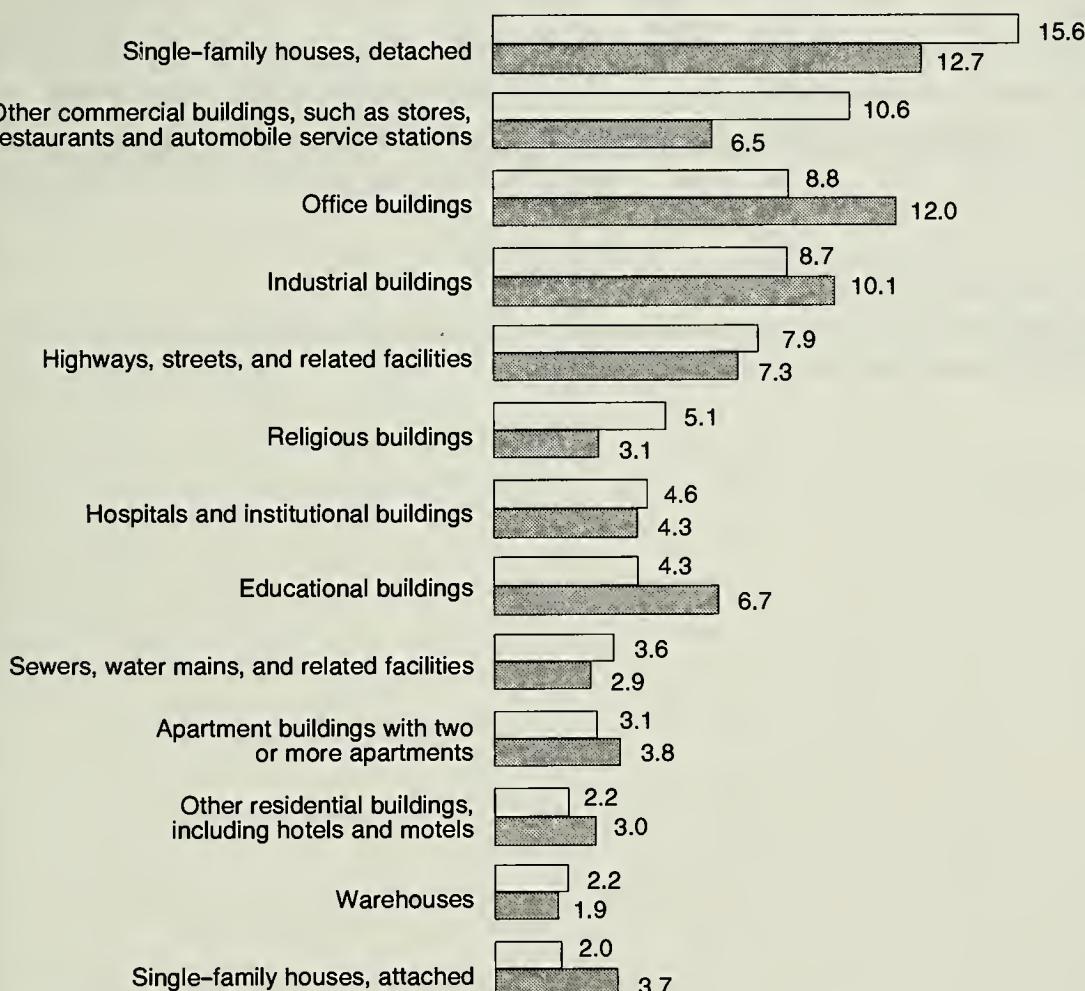


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—		
		Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done	Number	Propri- tors and working partners	Dollar value of business done	Number	Propri- tors and working partners	All em- ployees**	Dollar value of business done ¹	K	J	K
		A	B	C	D	E	F	G	H	I	J	K			
	1987														
	Construction Industries and land subdividers and developers -----	14 950	12 119	27 287	3 345 984	11 110	11 003	550 629	3 840	1 116	27 287	2 795 355	2	2	
15, 16, 17	Construction Industries -----	14 593	11 815	27 174	3 269 242	10 815	10 716	489 589	3 778	1 099	27 174	2 779 653	2	2	
15	Building construction—General contractors and operative builders -----	3 639	2 651	(D)	1 350 265	2 528	2 390	210 038	1 111	261	(D)	1 140 227	(D)	4	
16	Heavy construction other than building construction— contractors-----	495	262	(D)	532 607	224	224	16 705	271	38	(D)	515 902	(D)	2	
17	Special trade contractors -----	10 459	8 902	16 212	1 386 371	8 063	8 102	262 847	2 396	800	16 212	1 123 524	3	2	
1711	Plumbing, heating, and air-conditioning --	1 182	820	3 774	342 937	720	726	35 127	462	94	3 774	307 810	7	3	
1731	Electrical work-----	831	655	2 612	211 512	508	504	16 057	323	151	2 612	195 455	4	5	
6552	Land subdividers and developers, n.e.c.² -----	346	298	102	76 735	295	287	61 040	51	11	102	15 695	22	31	
	1982														
	Construction Industries and land subdividers and developers -----	11 636	9 345	29 501	2 622 913	7 921	7 936	341 680	3 715	1 409	29 501	2 281 233	2	1	
15, 16, 17	Construction Industries -----	11 381	9 153	29 226	2 555 742	7 733	7 758	302 645	3 648	1 395	29 226	2 253 097	2	1	
15	Building construction—General contractors and operative builders -----	3 104	2 428	7 532	1 033 789	2 099	2 069	130 404	1 005	359	7 532	903 385	3	2	
16	Heavy construction other than building construction— contractors-----	484	314	5 617	440 905	260	264	12 065	224	50	5 617	428 840	2	2	
17	Special trade contractors -----	7 793	6 411	16 077	1 081 048	5 374	5 425	160 176	2 419	986	16 077	920 872	3	2	
1711	Plumbing, heating, and air-conditioning --	906	575	3 348	281 040	454	457	22 218	452	118	3 348	258 822	5	3	
1731	Electrical work-----	650	456	2 855	192 478	356	363	9 394	294	93	2 855	183 084	5	3	
6552	Land subdividers and developers, n.e.c.² -----	251	191	270	67 166	188	178	39 035	63	13	270	28 131	7	7	

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—		
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²			
		A	B	C	D	E	F	G	H	I	J	K	J	K
1987														
The State	14 950	12 119	27 287	3 345 984	11 110	11 003	550 629	3 840	1 116	27 287	2 795 355	2	2	
\$10,000,000 or more	37	—	3 570	713 927	—	—	—	37	—	3 570	713 927	(W)	(W)	
\$5,000,000 to \$9,999,999	60	6	2 295	406 830	—	—	—	60	6	2 295	406 830	2	6	
\$2,500,000 to \$4,999,999	126	10	3 341	431 646	8	7	23 247	118	3	3 341	408 399	3	7	
\$1,000,000 to \$2,499,999	375	82	4 903	546 768	40	32	61 740	335	50	4 903	485 028	5	7	
\$500,000 to \$999,999	547	181	4 173	371 161	92	83	64 738	455	98	4 173	306 423	7	8	
\$250,000 to \$499,999	972	499	4 033	332 575	260	257	88 570	712	242	4 033	244 005	9	7	
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	797	785	121 938	(S)	(S)	(S)	(S)	(S)	(S)	
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	1 117	1 108	78 356	(S)	(S)	(S)	(S)	(S)	(S)	
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	1 565	1 559	55 426	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000	(S)	(S)	(S)	(S)	7 231	7 172	56 615	(S)	(S)	(S)	(S)	(S)	(S)	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	2 329	2 304	38 257	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 502	1 489	10 934	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 330	1 316	4 906	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	2 070	2 063	2 517	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982														
The State	11 636	9 345	29 501	2 622 913	7 921	7 936	341 680	3 715	1 409	29 501	2 281 233	2	1	
\$10,000,000 or more	40	6	6 677	(D)	—	—	—	40	6	6 677	(D)	(W)	(D)	
\$5,000,000 to \$9,999,999	34	3	1 565	(D)	3	3	17 944	31	—	1 565	(D)	(W)	(D)	
\$2,500,000 to \$4,999,999	92	12	2 754	315 653	4	6	10 741	88	6	2 754	304 912	(W)	(W)	
\$1,000,000 to \$2,499,999	274	50	4 886	425 945	27	30	40 586	247	20	4 886	385 359	4	5	
\$500,000 to \$999,999	390	111	3 725	269 343	45	46	32 690	345	65	3 725	236 653	7	7	
\$250,000 to \$499,999	601	267	3 322	215 999	124	116	42 616	477	151	3 322	173 383	7	8	
\$100,000 to \$249,999	1 382	866	3 734	218 030	469	500	71 019	913	366	3 734	147 011	7	6	
\$50,000 to \$99,999	1 373	1 058	1 513	96 970	714	726	49 244	659	332	1 513	47 726	9	7	
\$25,000 to \$49,999	1 459	1 257	751	52 016	1 039	1 035	36 670	420	222	751	15 346	10	9	
Less than \$25,000	5 989	5 714	572	46 125	5 496	5 474	40 170	493	240	572	5 955	8	9	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 668	1 660	26 348	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 282	1 276	8 669	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 387	1 387	3 994	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 159	1 151	1 159	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers	3 840	27 287	21 548	535 088	402 087	35 644	2 698 609	1 966 934
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	512	1 495	1 190	20 060	15 610	1 762	166 365	110 130
1522	Other residential buildings	70	283	203	4 735	3 275	331	32 014	24 900
1531	Operative builders	115	(D)	(D)	11 722	(D)	443	(D)	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	74	726	556	16 756	11 953	1 024	109 874	58 157
1542	Nonresidential buildings, n.e.c.	340	3 152	2 285	70 862	44 686	3 825	636 672	268 900
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	86	2 076	1 727	52 854	42 398	3 138	245 015	204 585
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	4	(D)	(D)	(D)	(D)	(D)	(D)	8 949
1623	Water, sewer, and utility lines	85	1 321	1 075	28 471	22 593	1 820	108 597	94 765
1629	Heavy construction, n.e.c.	96	1 227	997	27 970	21 834	1 586	124 332	109 621
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	462	3 774	2 875	73 274	54 462	4 853	301 199	255 971
1721	Painting and paper hanging	198	750	631	10 569	9 087	845	31 233	29 919
1731	Electrical work	323	2 612	2 046	59 990	46 586	3 677	192 262	184 502
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	216	955	843	13 810	11 843	1 162	45 818	43 124
1742	Plastering, drywall, and insulation work	203	1 663	1 395	29 527	22 953	2 479	93 514	85 763
1743	Terrazzo, tile, marble, and mosaic work	52	258	209	4 852	3 967	*296	15 734	15 073
175	Carpentry and floor work:								
1751	Carpentry	174	600	513	8 072	6 960	801	36 597	32 161
1752	Floor laying and other floor work	35	161	124	2 828	2 427	241	11 672	10 739
1761	Roofing, siding, and sheet metal work	162	1 501	1 228	25 096	19 147	2 112	100 378	96 791
1771	Concrete work	223	1 479	1 279	22 949	19 406	2 043	78 415	73 075
1781	Water well drilling	9	20	14	(D)	190	19	930	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	26	483	415	11 889	9 946	688	58 887	43 953
1793	Glass and glazing work	16	91	61	1 555	1 141	104	5 540	5 520
1794	Excavation work	92	545	443	11 379	9 243	735	55 406	50 081
1795	Wrecking and demolition work	*29	162	139	1 746	1 471	227	5 491	4 877
1796	Installing building equipment, n.e.c.	21	152	117	4 068	3 026	201	11 704	11 372
1799	Special trade contractors, n.e.c.	155	1 006	817	15 159	11 093	1 044	53 546	49 752
6552	Land subdividers and developers, n.e.c.	51	102	*22	1 864	*461	(S)	11 343	*6 497

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts ¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 181 307	856 277	731 675	54 986	50 893	521 214	29 501	2 206 144	979 248	2	2	5	15, 16, 17
												15
57 224	55 300	56 235	772	1 572	22 449	2 354	166 029	69 498	8	10	25	152
15 853	13 012	7 114	269	363	2 810	617	60 419	13 898	16	22	36	1521
23 197	65 325	62 094	983	*2 418	(D)	819	77 620	25 837	(D)	(D)	47	1531
32 195	26 691	51 717	1 684	996	9 086	1 078	124 620	29 791	12	11	27	154
175 794	108 638	367 771	9 308	3 868	37 724	2 664	448 775	110 969	5	5	16	1541
												1542
140 650	71 543	40 430	12 087	11 464	175 187	2 070	169 743	94 976	3	3	1	1611
5 057	(D)	(D)	278	(D)	(D)	(S)	(S)	(S)	(D)	(W)	(D)	162
62 338	34 140	13 831	5 043	3 737	34 992	989	74 537	38 803	12	7	10	1622
79 102	(D)	14 710	4 882	7 047	54 075	1 991	130 877	90 692	8	5	12	1623
												1629
												17
140 228	122 353	45 227	3 883	5 204	40 341	3 348	254 668	117 271	7	3	13	1711
21 617	9 496	1 313	783	635	4 419	698	19 928	13 495	10	10	37	1721
100 874	86 819	7 760	3 304	2 500	20 534	2 855	180 750	91 966	4	5	19	1731
28 688	16 278	*2 694	1 108	*1 181	9 488	1 022	32 168	16 698	11	11	45	174
52 744	35 308	7 751	1 432	1 580	10 633	1 582	77 469	42 336	8	8	34	1741
7 829	7 825	661	*169	*67	*1 053	240	10 694	6 240	25	27	63	1742
												1743
18 700	14 221	4 436	*494	*192	2 403	725	22 061	11 766	15	18	66	175
5 136	5 603	*932	180	*172	973	(S)	(S)	(S)	22	22	72	1751
49 933	47 848	3 586	1 102	943	11 926	1 383	67 188	34 127	6	5	24	1761
48 728	24 703	5 340	*2 443	1 978	27 051	1 290	68 663	41 547	10	9	25	1771
601	377	(D)	(S)	(S)	1 100	(S)	(S)	(S)	31	(D)	(S)	1781
26 323	18 184	14 933	1 926	553	12 351	434	39 437	25 254	10	9	18	179
3 288	2 966	*20	185	(S)	556	104	4 588	2 782	34	32	(S)	1791
33 884	17 321	5 325	1 565	2 379	14 919	1 006	53 287	38 433	12	22	37	1793
3 611	1 620	614	136	*161	*3 060	83	(D)	2 277	30	23	54	1794
7 817	3 639	*332	208	240	1 339	196	11 740	6 867	10	7	39	1795
35 389	18 824	3 794	687	*1 337	4 871	909	40 462	23 168	13	13	44	1796
4 496	*2 320	4 846	55	(D)	1 311	270	18 091	11 139	22	43	(D)	1799

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	3 840	3 715	4 389	3 172	2	3	4	5
Proprietors and working partners	1 116	1 409	2 773	2 081	7	5	6	7
All employees**	27 287	29 501	34 603	24 725	2	2	2	3
Construction workers:								
March	19 414	21 167	25 508	17 523	2	2	2	3
May	21 516	24 699	30 258	21 191	2	2	2	3
August	23 387	27 481	33 246	24 504	2	2	2	3
November	21 874	24 111	30 974	22 291	2	2	2	4
Average	21 548	24 680	30 018	21 712	2	2	2	3
Other employees:								
March	5 631	4 628	4 365	2 910	2	2	3	4
May	5 624	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	6 086	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
November	5 624	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	5 741	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	7 545	8 258	(NA)	(NA)	2	2	(NA)	(NA)
April to June	8 856	9 876	(NA)	(NA)	2	2	(NA)	(NA)
July to September	10 079	11 066	(NA)	(NA)	2	2	(NA)	(NA)
October to December	9 164	9 617	(NA)	(NA)	3	2	(NA)	(NA)
Total hours worked	35 644	38 819	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	535 088	512 402	425 914	223 981	1	1	1	2
Payroll, construction workers	402 087	410 477	349 978	192 994	1	1	1	2
Payroll, other employees	133 001	101 925	75 936	30 987	2	2	2	3
First quarter payroll, all employees	115 557	109 025	85 817	(NA)	2	2	1	(NA)
Employer costs for fringe benefits, all employees								
Legally required expenditures	115 764	96 406	75 658	(NA)	2	1	1	(NA)
Voluntary expenditures	79 867	68 336	42 884	(NA)	2	1	2	(NA)
35 896	28 070	32 774	(NA)	3	2	1	(NA)	(NA)
Dollar value of business done	2 795 355	2 281 233	1 828 645	961 703	2	1	2	4
Value of construction work ¹	2 698 609	2 206 144	1 742 122	932 208	2	1	2	3
Value of construction work subcontracted in from others	639 002	530 050	443 115	190 702	5	3	2	5
Land receipts ²	26 095	19 963	(NA)	(NA)	17	7	(NA)	(NA)
Other business receipts	70 650	55 125	86 523	29 495	4	4	5	9
Net value of construction	1 966 934	1 621 730	1 299 582	702 698	2	2	2	3
Value added††	1 181 307	979 248	753 766	420 321	2	1	1	3
Selected costs								
Materials, components, and supplies ³	1 587 952	1 282 021	1 037 685	528 602	2	2	2	5
Construction work subcontracted to others	810 498	644 852	563 169	299 092	2	2	2	4
Selected power, fuels, and lubricants	731 675	584 414	442 540	229 510	3	2	3	7
Electricity	45 778	52 755	31 977	(NA)	2	3	2	(NA)
Natural gas	5 518	5 634	3 386	(NA)	4	6	4	(NA)
Gasoline and diesel fuel	2 145	2 816	2 255	(NA)	4	5	5	(NA)
On highway use	34 785	41 101	22 488	(NA)	2	2	2	(NA)
Off highway use	21 966	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	12 818	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
	3 329	3 204	3 848	(NA)	4	4	5	(NA)
Rental cost for machinery, equipment, and buildings								
For machinery and equipment	54 986	33 535	24 966	(NA)	4	4	2	(NA)
For buildings	40 279	25 734	21 447	11 181	4	5	2	3
	14 706	7 801	3 520	(NA)	4	4	5	(NA)
Selected purchased services								
Communication services	52 778	47 692	31 864	(NA)	3	2	2	(NA)
Repairs to buildings and other structures	10 852	8 801	6 188	(NA)	4	3	3	(NA)
Repairs to machinery and equipment	2 198	1 506	1 629	(NA)	11	5	8	(NA)
	39 727	37 385	24 047	(NA)	4	3	2	(NA)
Ownership of construction projects:								
Value of construction work	2 698 609	2 206 144	1 742 122	932 208	2	1	2	3
Government owned	907 520	415 649	305 463	272 235	4	5	1	(NA)
Federal	373 219	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
State and local	534 301	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Privately owned	1 791 089	1 790 495	1 436 659	659 973	3	2	2	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	507 266	437 871	3	3
Capital expenditures, other than land	50 893	53 983	5	3
New	35 850	40 476	4	2
Used	15 043	13 506	11	7
Retirements and disposition of depreciable assets	36 945	20 327	8	7
End-of-year gross book value of depreciable assets	521 214	471 527	3	3
Depreciation charges during year	57 333	60 492	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	79 207	72 459	9	6
Capital expenditures, other than land	9 913	12 997	12	7
New buildings and other structures	7 045	10 615	7	2
Used buildings and other structures	2 867	2 382	35	40
Retirements and disposition of depreciable assets	7 768	4 191	29	24
End-of-year gross book value of depreciable assets	81 351	81 265	9	6
Depreciation charges during year	5 118	6 906	9	14
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	428 059	365 412	3	3
Capital expenditures, other than land	40 980	40 985	5	3
New machinery and equipment, including automobiles and trucks	28 804	29 861	5	3
New automobiles and trucks, intended primarily for highway use	11 030	10 116	8	6
Used machinery and equipment, including automobiles and trucks	12 175	11 124	10	6
Retirements and disposition of depreciable assets	29 176	16 135	8	6
End-of-year gross book value of depreciable assets	439 863	390 262	3	3
Depreciation charges during year	52 215	53 586	4	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	3 840	2
Value of construction work	2 698 609	2
Establishments with inventories:		
Number	1 588	5
Value of construction work	1 478 178	3
Inventories ¹ :		
End of 1987, materials and supplies	40 117	13
End of 1986, materials and supplies	36 070	11
Establishments with no inventories:		
Number	1 819	5
Value of construction work	1 031 409	5
Establishments not reporting:		
Number	433	12
Value of construction work	189 022	8

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more	
1987											
Number of establishments	3 840	2 349	819	409	193	54	12	1	-	-	-
All employees**	27 287	4 786	5 242	5 547	5 817	3 682	2 212	(D)	-	-	-
Payroll, all employees	535 088	66 025	82 001	106 651	130 585	87 120	62 705	(D)	-	-	-
Construction worker hours (thousands)	35 644	5 359	6 813	7 260	7 667	5 131	3 413	(D)	-	-	-
Dollar value business done	2 795 355	461 669	386 467	545 692	637 036	437 053	327 436	(D)	-	-	-
Value of construction work ¹	2 698 609	445 036	371 985	531 203	621 621	429 527	299 235	(D)	-	-	-
Net value of construction work†	1 966 934	324 899	298 092	387 055	467 486	282 179	207 221	(D)	-	-	-
Value added††	1 181 307	170 568	179 666	220 486	280 453	178 247	151 886	(D)	-	-	-
Cost of materials, components, supplies, and fuels	856 277	161 451	124 686	175 889	310 714	(D)	83 536	(D)	-	-	-
Cost of construction work subcontracted to others	731 675	120 137	73 893	144 148	154 134	147 348	92 014	(D)	-	-	-
Rental cost for machinery, equipment, and buildings	54 986	3 610	4 827	8 418	10 724	16 600	10 805	(D)	-	-	-
Capital expenditures, other than land	50 893	7 702	8 510	8 670	7 635	7 813	10 561	(D)	-	-	-
End-of-year gross book value of depreciable assets	521 214	65 403	68 930	84 190	91 343	79 902	131 444	(D)	-	-	-
1982											
All employees**	29 501	4 563	4 630	5 109	6 511	2 310	3 349	3 029	-	(D)	(D)
Value of construction work ¹	2 206 144	219 626	300 669	379 426	512 968	288 533	283 276	221 646	-	(D)	(D)
Value added††	979 248	103 548	127 008	164 816	217 748	95 827	139 709	130 591	-	(D)	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	4	7	5	3	8	(W)	(D)	-	-	-
Net value of construction work†	2	6	7	6	2	2	(W)	(D)	-	-	-
Capital expenditures, other than land	5	16	17	16	6	(W)	(W)	(D)	-	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	3 840	(S)	(S)	(S)	(S)	712	455	335	118	60	37
All employees**	27 287	(S)	(S)	(S)	(S)	4 033	4 173	4 903	3 341	2 295	3 570
Payroll, all employees	535 088	(S)	(S)	(S)	(S)	57 404	73 092	99 066	82 216	58 687	107 754
Construction worker hours (thousands)	35 644	(S)	(S)	(S)	(S)	5 118	5 374	6 390	4 697	2 943	5 533
Dollar value of business done	2 795 355	(S)	(S)	(S)	(S)	244 005	306 423	485 028	408 399	406 830	713 927
Value of construction work ¹	2 698 609	(S)	(S)	(S)	(S)	236 747	298 613	463 257	401 885	388 857	683 743
Net value of construction work†	1 966 934	(S)	(S)	(S)	(S)	202 645	246 811	358 827	306 804	251 545	398 094
Value added††	1 181 307	(S)	(S)	(S)	(S)	118 951	145 742	195 693	194 630	144 943	261 921
Cost of materials, components, supplies, and fuels	856 277	(S)	(S)	(S)	(S)	89 934	106 723	172 019	115 995	284 970	(D)
Cost of construction work subcontracted to others	731 675	(S)	(S)	(S)	(S)	34 101	51 801	104 429	95 081	137 312	285 649
Rental cost for machinery, equipment, and buildings	54 986	(S)	(S)	(S)	(S)	3 629	5 097	7 736	8 004	5 466	22 530
Capital expenditures, other than land	50 893	(S)	(S)	(S)	(S)	6 932	4 637	8 793	5 498	7 457	12 752
End-of-year gross book value of depreciable assets	521 214	(S)	(S)	(S)	(S)	53 658	48 278	79 808	68 184	50 485	171 407
1982											
All employees**	29 501	572	751	1 513	3 734	3 322	3 725	4 886	2 754	1 565	6 677
Value of construction work ¹	2 206 144	5 849	15 166	46 423	143 172	166 414	228 722	372 029	293 978	194 404	739 985
Value added††	979 248	2 827	8 456	23 505	72 848	85 932	110 735	162 638	114 899	86 424	310 980
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	(S)	(S)	9	7	5	3	2
Net value of construction work†	2	(S)	(S)	(S)	(S)	(S)	8	7	6	5	(W)
Capital expenditures, other than land	5	(S)	(S)	(S)	(S)	(S)	17	20	15	15	4

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work¹	2 698 609	1 806 139	526 667	231 373	2	2	4	3
Building construction	1 909 526	1 343 745	413 062	137 550	2	3	4	4
Single-family houses	476 016	360 174	72 502	43 338	7	8	8	9
Single-family houses, detached	421 652	325 235	61 871	34 545	7	9	8	9
Single-family houses, attached	54 364	34 939	10 631	8 793	11	15	22	25
Apartment buildings with two or more apartments	84 080	61 249	15 677	7 153	10	12	17	13
Other residential buildings, including hotels and motels	60 373	40 684	12 451	7 237	11	15	9	18
Hotels and motels	36 220	30 260	3 501	2 457	15	17	8	13
Other residential buildings, excluding hotels and motels	24 153	10 424	8 950	4 780	16	29	12	26
Office buildings	236 042	168 074	51 349	16 617	6	8	11	7
Other commercial buildings such as stores, restaurants, and automobile service stations	285 152	208 119	56 810	20 222	5	7	4	11
Industrial buildings and warehouses	293 832	200 262	68 664	24 905	4	5	8	7
Industrial buildings	235 574	163 347	54 410	17 816	4	5	8	9
Warehouses	58 258	36 915	14 254	7 089	11	16	18	8
Religious buildings	137 896	94 118	38 748	5 030	7	7	16	12
Educational buildings	115 495	69 074	41 678	4 743	9	9	15	4
Hospitals and institutional buildings	124 899	90 002	29 990	4 906	3	1	13	6
Farm buildings	8 506	7 141	573	791	11	12	11	34
Amusement, social, and recreational buildings	8 295	4 892	2 501	901	12	14	22	19
Other nonresidential buildings	(S)	(S)	22 113	1 702	(S)	(S)	9	27
Land development for buildings	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	668 176	462 394	113 605	92 176	2	2	6	4
Highways, streets, and related facilities	213 834	127 249	52 796	33 788	3	4	3	4
Outdoor swimming pools	4 109	2 702	*659	748	32	32	52	39
Airport runways	6 854	*4 131	2 617	(S)	36	43	23	(S)
Parking areas including private driveways	25 645	16 896	5 691	3 058	15	15	29	24
Fencing	10 264	8 505	1 211	547	16	17	12	26
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	*8 077	*4 449	*208	*3 419	56	61	55	53
Bridges, tunnels, and elevated highways	18 066	13 957	*2 115	1 993	6	2	46	9
Dam and reservoir construction	7 231	4 569	2 531	130	17	26	10	38
Conservation and development construction	51 989	43 139	*3 959	4 890	6	3	61	7
Power and communication transmission lines, towers, and related facilities	42 625	35 833	2 577	4 214	10	12	8	30
Sewers, water mains, and related facilities	97 785	77 726	14 467	5 591	8	8	33	25
Sewers, sewer lines, and related facilities	49 347	41 206	6 480	1 659	10	11	38	18
Water mains and related facilities	48 438	36 520	7 987	3 931	8	7	28	34
Pipeline, other than sewer or water lines	24 559	17 439	1 688	5 431	2	2	15	1
Blast furnaces, petroleum refineries, and chemical complexes	43 780	28 212	3 200	12 368	2	1	1	7
Power plants	12 303	4 856	3 613	3 832	7	14	3	11
Sewage treatment and water treatment plants	45 666	38 895	5 212	1 558	4	4	21	26
Sewage treatment plants	42 606	36 291	5 189	1 124	4	3	21	32
Water treatment plants	3 060	2 604	(S)	*433	22	19	(S)	41
Earthmoving, nonbuilding	16 297	9 916	5 984	*396	14	20	8	46
Other nonbuilding construction	39 092	23 919	5 099	10 213	9	9	11	20
Construction work, n.s.k.	120 906	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1982								
Value of construction work¹	2 206 144	1 981 527	(NA)	224 617	1	1	(NA)	3
Building construction	1 520 221	1 375 156	(NA)	145 064	1	1	(NA)	3
Single-family houses	360 825	313 364	(NA)	47 461	5	6	(NA)	7
Single-family houses, detached	279 262	238 317	(NA)	40 945	6	6	(NA)	7
Single-family houses, attached	81 562	75 046	(NA)	6 516	8	8	(NA)	15
Apartment buildings with two or more apartments	84 209	75 914	(NA)	8 295	5	4	(NA)	30
Other residential buildings, including hotels and motels	66 675	59 875	(NA)	6 799	4	4	(NA)	8
Office buildings	265 325	246 306	(NA)	19 019	2	1	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations	142 319	129 074	(NA)	13 245	4	4	(NA)	13
Industrial buildings and warehouses	263 712	236 855	(NA)	26 856	3	4	(NA)	5
Industrial buildings	222 082	198 851	(NA)	23 231	4	4	(NA)	6
Warehouses	41 629	38 004	(NA)	3 624	3	4	(NA)	7
Religious buildings	67 533	62 965	(NA)	4 568	5	5	(NA)	7
Educational buildings	148 367	138 208	(NA)	10 158	3	3	(NA)	14
Hospitals and institutional buildings	94 679	89 476	(NA)	5 202	1	2	(NA)	9
Farm buildings	6 434	5 147	(NA)	1 287	27	27	(NA)	35
Amusement, social, and recreational buildings	14 059	13 475	(NA)	584	17	18	(NA)	16
Other nonresidential buildings	6 080	4 491	(NA)	*1 588	16	10	(NA)	53
Nonbuilding construction	542 639	488 350	(NA)	54 288	2	2	(NA)	4
Highways, streets, and related facilities	160 582	130 546	(NA)	30 035	3	3	(NA)	5
Parking areas including private driveways	3 346	2 495	(NA)	851	19	13	(NA)	37
Fencing	*4 983	*4 516	(NA)	*466	53	54	(NA)	61
Bridges, tunnels, and elevated highways	50 178	46 597	(NA)	3 581	4	3	(NA)	25
Dam and reservoir construction	6 398	6 345	(NA)	(S)	7	5	(NA)	(S)
Conservation and development construction	5 655	4 695	(NA)	959	14	16	(NA)	5
Power and communication transmission lines, towers, and related facilities	19 314	17 749	(NA)	1 565	9	8	(NA)	35
Sewers, water mains, and related facilities	62 911	57 450	(NA)	5 460	9	10	(NA)	12
Pipeline, other than sewer or water lines	22 989	21 344	(NA)	1 644	3	3	(NA)	2
Blast furnaces, petroleum refineries, and chemical complexes	24 150	20 605	(NA)	3 545	7	3	(NA)	28
Power plants	93 698	92 143	(NA)	1 554	(W)	(W)	(NA)	(W)
Sewage treatment and water treatment plants	22 707	21 811	(NA)	895	3	3	(NA)	(W)
Oilfields	10 645	8 651	(NA)	1 994	13	12	(NA)	35
Other nonbuilding construction	55 072	53 393	(NA)	1 678	4	3	(NA)	22
Construction work, n.s.k.	143 283	118 019	(NA)	25 264	5	6	(NA)	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					A	B	C	D
							E	F
								G
	Construction industries and land subdividers and developers -----	3 840	21 548	35 644	19 414	7 545	21 516	8 856
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	512	1 190	1 762	1 002	364	1 182	461
1522	Other residential buildings -----	70	203	331	255	87	172	80
1531	Operative builders -----	115	(D)	443	202	92	(D)	119
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	74	556	1 024	538	241	544	231
1542	Nonresidential buildings, n.e.c. -----	340	2 285	3 825	2 172	833	2 111	914
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	86	1 727	3 138	1 167	448	1 965	872
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	4	(D)	(D)	75	23	(D)	39
1623	Water, sewer, and utility lines -----	85	1 075	1 820	905	363	1 096	494
1629	Heavy construction, n.e.c. -----	96	997	1 586	802	317	957	353
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning -----	462	2 875	4 853	2 857	1 148	2 969	1 262
1721	Painting and paper hanging -----	198	631	845	560	165	639	191
1731	Electrical work -----	323	2 046	3 677	2 047	887	1 946	858
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	216	843	1 162	760	245	953	322
1742	Plastering, drywall, and insulation work -----	203	1 395	2 479	1 379	626	1 368	624
1743	Terrazzo, tile, marble, and mosaic work -----	52	209	*296	244	*85	199	65
175	Carpentry and floor work:							
1751	Carpentry -----	174	513	801	402	145	507	178
1752	Floor laying and other floor work -----	35	124	241	132	64	119	60
1761	Roofing, siding, and sheet metal work:							
1771	Concrete work -----	223	1 279	2 043	935	373	1 249	512
1781	Water well drilling -----	9	14	19	*12	3	18	5
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	26	415	688	357	107	417	171
1793	Glass and glazing work -----	16	61	104	62	26	56	25
1794	Excavation work -----	92	443	735	399	125	419	160
1795	Wrecking and demolition work -----	*29	139	227	*98	*57	101	58
1796	Installing building equipment, n.e.c. -----	21	117	201	136	61	111	48
1799	Special trade contractors, n.e.c. -----	155	817	1 044	819	235	884	265
6552	Land subdividers and developers, n.e.c. -----	51	*22	(S)	*27	(S)	*27	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—												1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K			
H	I	J	K													
23 387	10 079	21 874	9 164	2	2	2	2	2	2	2	2	2	3			15, 16, 17
1 302 209	491 94	1 275 179	444 69	9 17	13 20	10 23	15 27	9 16	13 23	9 18	13 21	10 22	14 21			15
(D)	135	(D)	96	20	26	20	26	21	27	21	28	19	24			152 1521 1522
557 2 554	289 1 093	584 2 302	261 984	11 5	13 6	16 5	16 5	13 6	12 6	10 6	17 7	14 5	11 6			154 1541 1542
2 214	1 116	1 561	702	3	3	3	3	3	4	3	4	3	3			16
(D) 1 222 1 016	(D) 522 419	(D) 1 077 1 211	(D) 440 495	(D) 13 7	(D) 20 8	(W) 15 6	(W) 19 6	(D) 13 8	(W) 21 11	(D) 12 10	(D) 21 10	(D) 14 6	(D) 19 6			162 1622 1623 1629
2 780	1 216	2 893	1 226	7	7	9	8	9	7	4	7	9	8			17
762	270	574	218	11	10	13	12	11	12	13	11	12	14			1711
2 137	951	2 061	979	5	6	4	6	4	6	5	7	6	8			1721
849 1 472 173	313 648 *61	811 1 359 219	280 578 *84	11 9 26	18 12 42	14 9 32	21 11 44	12 9 23	18 13 40	11 10 22	17 12 42	12 10 27	21 13 45			1741 1742 1743
568 137	238 62	576 109	239 53	15 24	18 31	16 28	19 32	15 23	17 32	15 22	19 28	20 28	24 34			175 1751 1752
1 327	618	1 380	602	6	10	5	8	6	8	7	13	8	14			1761
1 554	595	1 376	562	11	10	11	13	11	11	12	10	11	10			1771
13	5	14	5	26	19	41	24	27	16	(W)	(W)	35	40			1781
448 66 525 134 103 850	227 26 230 48 44 294	439 60 428 *225 119 717	181 26 218 63 48 249	10 35 12 32 11 14	11 34 17 36 9 21	11 37 14 45 17 19	10 35 18 48 16 22	11 35 12 37 12 17	14 33 15 38 8 21	8 37 11 29 2 13	10 35 16 30 2 20	11 34 12 41 6 13	9 33 12 32 10 22			179 1793 1794 1795 1796 1799
*13	(S)	*22	(S)	58	(S)	59	(S)	59	(S)	47	(S)	70	(S)			6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

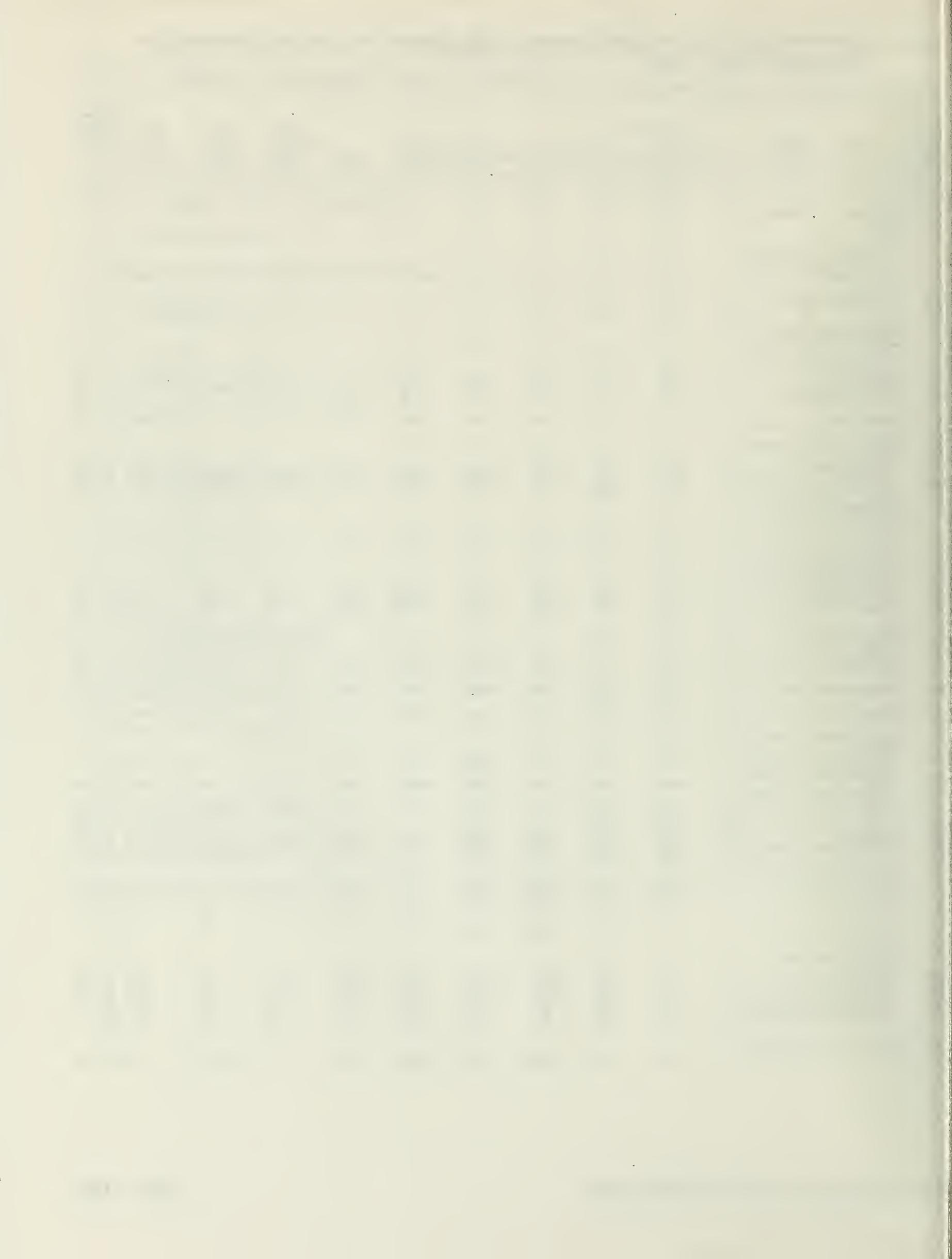
[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	7.1	19.6	1 654.2	125.2	.198	.317	.271	.020
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	2.9	13.4	1 480.7	139.8	.121	.332	.338	.005
1522	Other residential buildings	4.0	16.7	1 630.5	157.7	.148	.406	.222	.008
1531	Operative builders	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	9.8	23.1	1 841.7	197.6	.153	.243	.471	.015
1542	Nonresidential buildings, n.e.c.	9.3	22.5	1 674.0	278.6	.111	.171	.578	.015
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	24.1	25.5	1 817.0	141.9	.216	.292	.165	.049
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	15.5	21.6	1 693.0	101.0	.262	.314	.127	.046
1629	Heavy construction, n.e.c.	12.8	22.8	1 590.8	124.7	.225	(D)	.118	.039
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	8.2	19.4	1 688.0	104.8	.243	.406	.150	.013
1721	Painting and paper hanging	3.8	14.1	1 339.1	49.5	.338	.304	.042	.025
1731	Electrical work	8.1	23.0	1 797.2	94.0	.312	.452	.040	.017
174	Masonry, stone work, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	4.4	14.5	1 378.4	54.4	.301	.355	*.059	.024
1742	Plastering, drywall, and insulation work	8.2	17.8	1 777.1	67.0	.316	.378	.083	.015
1743	Terrazzo, tile, marble, and mosaic work	5.0	18.8	* 1 416.3	75.3	.308	.497	.042	*.011
175	Carpentry and floor work:								
1751	Carpentry	3.4	13.5	1 561.4	71.3	.221	.389	.121	*.013
1752	Floor laying and other floor work	4.6	17.6	1 943.5	94.1	.242	.480	.080	.015
1761	Roofing, siding, and sheet metal work	9.3	16.7	1 719.9	81.7	.250	.477	.036	.011
1771	Concrete work	6.6	15.5	1 597.3	61.3	.293	.315	.068	*.031
1781	Water well drilling	2.2	(D)	1 357.1	66.4	(D)	.405	(D)	(S)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	18.6	24.6	1 657.8	141.9	.202	.309	.254	.033
1793	Glass and glazing work	5.7	17.1	1 704.9	90.8	.281	.535	*.004	.033
1794	Excavation work	5.9	20.9	1 659.1	125.1	.205	.313	.096	.028
1795	Wrecking and demolition work	*5.6	10.8	1 633.1	39.5	.318	.295	.112	.025
1796	Installing building equipment, n.e.c.	7.2	26.8	1 717.9	100.0	.348	.311	*.028	.018
1799	Special trade contractors, n.e.c.	6.5	15.1	1 277.8	65.5	.283	.352	.071	.013
6552	Land subdividers and developers, n.e.c.	2.0	18.3	(S)	515.6	.164	*.205	.427	.005

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expendi- tures, other than land	Relative standard error of estimate (percent) for column—	
											B	E
	SALT LAKE CITY-OGDEN, UT MSA											
	Construction industries and land subdividers and developers-----	2 512	19 853	397 279	2 049 080	1 456 089	868 743	639 479	592 991	33 992	2	2
f5,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	322 (S)	1 005 (S)	13 422 (S)	117 867 (S)	76 488 (S)	37 735 (S)	(D) (S)	41 379 (S)	560 (D)	11 (S)	13 (S)
1522	Other residential buildings-----											
1531	Operative builders -----	76	439	9 974	116 306	66 630	14 039	(D)	49 675	*1 569	16	23
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	50 211	571 2 539	13 779 60 923	93 017 532 605	48 487 222 802	28 851 150 013	20 307 83 713	44 529 309 802	612 3 034	15 4	13 5
1542	Nonresidential buildings, n.e.c.-----											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	50	1 167	27 018	137 005	113 615	70 664	(D)	23 390	7 004	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	3 42	(D) 668	(D) 12 695	40 (D) 172	36 (D) 789	27 (D) 532	10 (D) 625	3 (D) 383	(D) 972	(D) 21	(D) 10
1623	Water, sewer, and utility lines-----	61	730	18 043	91 510	80 018	58 078	(D)	11 492	5 450	10	6
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	298	2 947	60 295	254 866	212 409	118 743	99 569	42 457	4 506	9	3
1721	Painting and paper hanging-----	150	594	7 935	22 873	21 966	15 805	7 343	907	614	13	11
1731	Electrical work -----	219	2 030	47 995	151 668	144 715	78 163	68 729	6 953	2 058	5	6
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	128	616	9 396	26 392	25 659	17 788	(D)	733	*253	14	14
1742	Plastering, drywall, and insulation work-----	138	1 358	24 153	76 746	70 035	43 664	(D)	6 711	1 295	10	9
1743	Terrazzo, tile, marble, and mosaic work-----	34	212	3 981	(D)	11 879	(D)	5 995	516	(D)	29	31
175	Carpentry and floor work:											
1751	Carpentry-----	111 29	390 151	5 029 2 678	22 604 10 889	20 285 10 049	12 398 4 834	8 648 (D)	2 319 *840	39 (S)	20 24	27
1752	Floor laying and other floorwork-----											
1761	Roofing, siding, and sheet metal work-----	131	1 292	22 400	85 162	(D)	42 807	(D)	(D)	834	6	(D)
1771	Concrete work -----	131	905	14 686	52 357	48 910	33 170	15 796	3 447	1 187	14	11
1781	Water well drilling -----	*6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	18	379	9 979	52 809	(D)	22 865	15 841	(D)	326	12	(D)
1793	Glass and glazing work-----	*13	*67	*1 071	*3 654	*3 633	*2 194	*1 863	*20	(S)	47	48
1794	Excavation work-----	53	364	8 021	43 956	(D)	*25 458	(D)	(D)	*1 483	12	(D)
1795	Wrecking and demolition work-----	*19	112	1 058	4 160	3 546	2 454	1 252	614	*77	33	11
1796	Installing building equipment, n.e.c.-----	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	108	769	11 655	38 426	35 440	26 170	13 374	2 986	*1 283	13	12
8552	Land subdividers and developers, n.e.c.-----	40	84	1 722	10 797	*6 134	4 164	(D)	4 663	(D)	26	45



CONTENTS

Wyoming

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings.....	2

FIGURES

1. Selected Costs Per Dollar Value of Business Done.....	3
2. Value of Construction Work by Type of Construction	3

TABLES

Statistics for Establishments With and Without Payroll

1. Summary Statistics: 1987 and 1982.....	4
2. Summary Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982.....	5

Statistics for Establishments With Payroll

3. General Statistics by Industry: 1987 and 1982	6
4. Detailed Statistics: 1987 and Earlier Census Years	8
5. Assets, Capital Expenditures, and Depreciation: 1987 and 1982.....	9
6. Value of Inventories: 1987 and 1986	9
7. Selected Statistics by Employment Size Class: 1987 and 1982	10
8. Selected Statistics by Size Class of Dollar Value of Business Done: 1987 and 1982	10
9. Value of Construction Work by Type of Construction: 1987 and 1982.....	11
10. Quarterly Construction Worker Hours and Employment by Industry: 1987	12
11. Selected Industry Ratios in This State: 1987	14
12. Selected Statistics for Selected Metropolitan Statistical Areas: 1987.....	!

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Wyoming. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 4,716 establishments in this State operating in the construction industries or as land subdivider and developers. These establishments accounted for \$854 million in total value of business done.

Most of the 4,716 construction establishments were small. Of the total, 3,410 were nonemployers, and over half of the employer establishments had less than 5 employees. The 452 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 76 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$754 million on total dollar value of business done. Of this amount, \$732 million were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$167 million, leaving net value of construction work of \$565 million. In addition, these establishments paid out \$291 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$344 million. (See Introduction and appendices for explanation of terms.)

There were 1,306 establishments with total employment averaging 8,952 during the year. Total payroll for 1987 was \$168 million. Total hours worked by construction workers during the year were 12.2 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 3,410 establishments with no payroll classified as construction or land subdivider and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$101 million. Most of these establishments, about 72 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

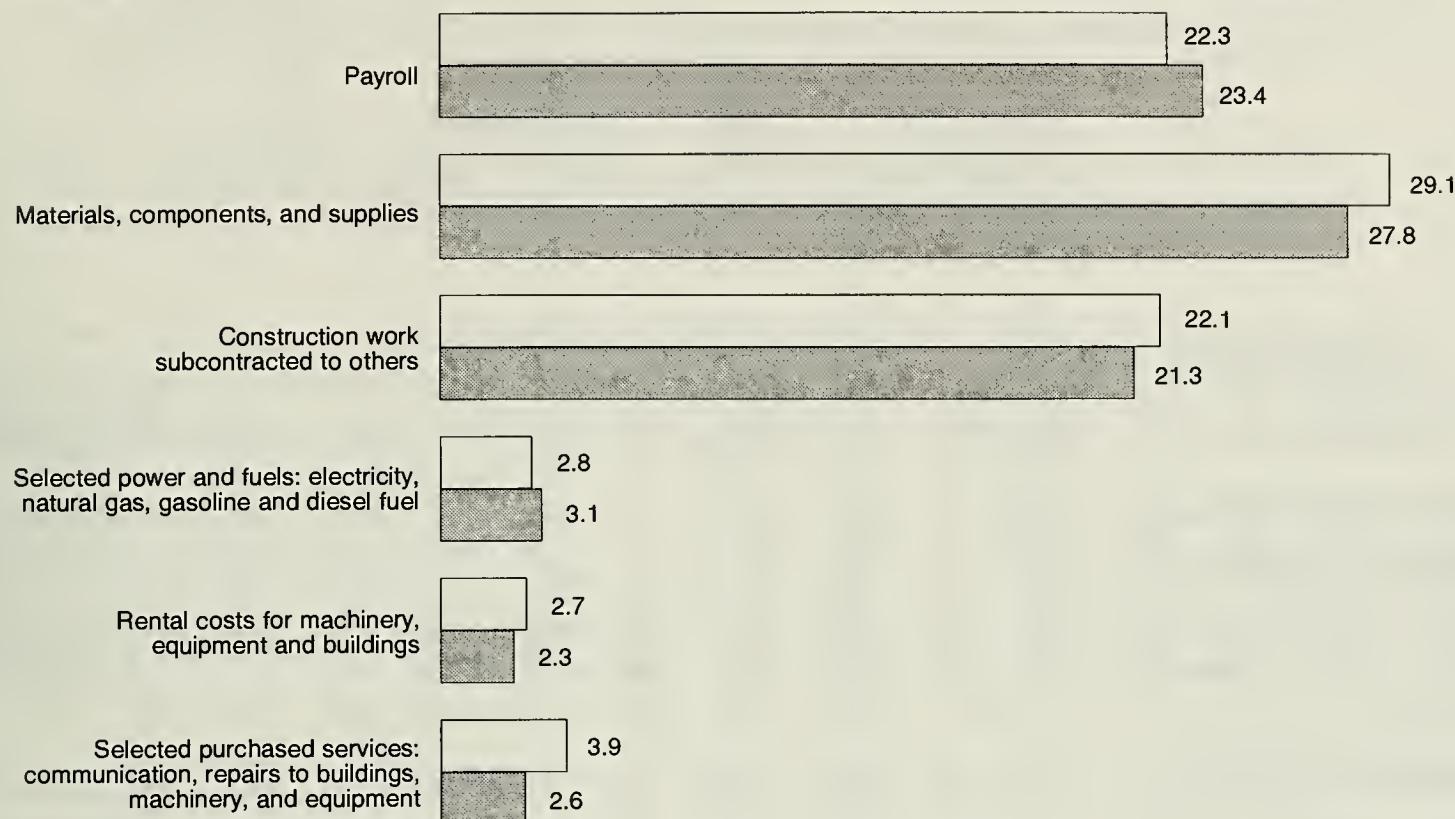


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

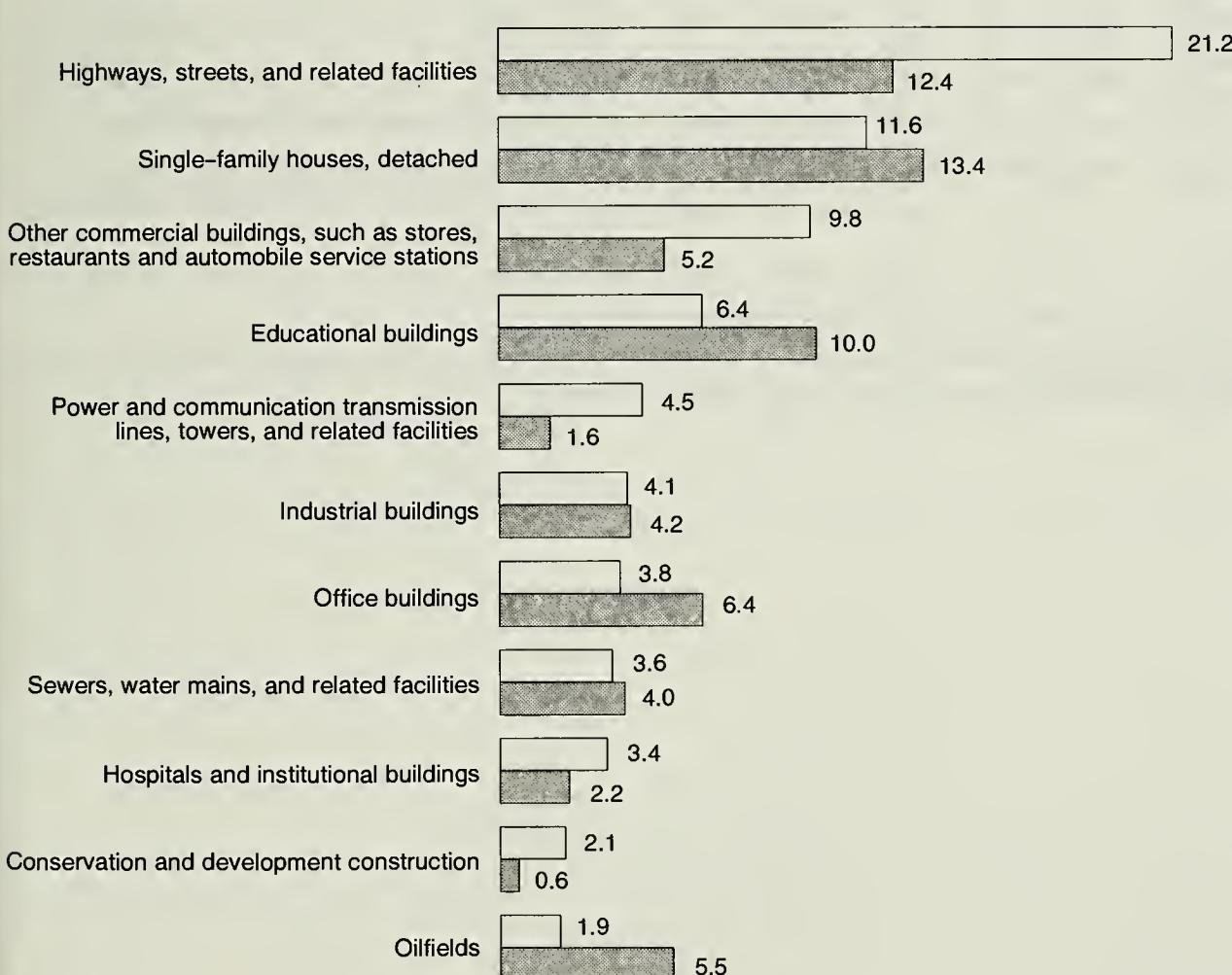


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done ¹	J	K
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	4 716	3 775	8 952	854 485	3 410	3 396	100 937	1 306	379	8 952	753 548	2	2
15, 16, 17	Construction Industries -----	4 589	3 659	8 938	846 875	3 293	3 283	93 447	1 296	376	8 938	753 428	2	2
15	Building construction—General contractors and operative builders -----	1 037	798	1 836	251 476	709	678	28 115	328	120	1 836	223 361	6	7
16	Heavy construction other than building construction—contractors-----	377	194	(D)	(D)	140	143	7 671	237	51	(D)	(D)	(D)	(D)
17	Special trade contractors -----	3 175	2 667	(D)	(D)	2 444	2 462	57 661	731	205	(D)	(D)	(D)	(D)
1711	Plumbing, heating, and air-conditioning --	317	207	761	59 715	166	167	6 023	151	40	761	53 692	10	13
1731	Electrical work-----	295	182	969	65 345	157	156	7 250	138	26	969	58 095	8	8
6552	Land subdividers and developers, n.e.c. ² -----	121	(S)	(S)	(S)	117	113	7 491	*4	(S)	(S)	(S)	(S)	(S)
	1982													
	Construction industries and land subdividers and developers -----	5 983	4 878	14 851	1 259 898	4 164	4 213	178 708	1 819	665	14 851	1 081 190	2	2
15, 16, 17	Construction Industries -----	5 826	4 742	14 740	1 237 347	4 039	4 077	161 548	1 787	665	14 740	1 075 799	2	2
15	Building construction—General contractors and operative builders -----	1 518	1 208	3 318	438 056	1 008	996	71 815	510	212	3 318	366 241	5	4
16	Heavy construction other than building construction—contractors-----	395	241	4 452	340 283	227	232	8 824	168	9	4 452	331 459	2	2
17	Special trade contractors -----	3 913	3 293	6 970	459 008	2 804	2 849	80 909	1 109	444	6 970	378 099	4	3
1711	Plumbing, heating, and air-conditioning --	427	288	1 201	79 020	228	231	9 959	199	57	1 201	69 061	10	7
1731	Electrical work-----	338	212	1 687	105 416	156	161	8 723	182	51	1 687	96 693	5	5
6552	Land subdividers and developers, n.e.c. ² -----	153	136	109	22 548	125	136	17 160	28	-	109	5 388	16	18

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousands dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹				Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²			
	A	B	C	D	E	F	G	H	I	J	K		J	K
1987														
The State	4 716	3 775	8 952	854 485	3 410	3 396	100 937	1 306	379	8 952	753 548	2	2	
\$10,000,000 or more	9	—	928	150 741	—	—	—	9	—	928	150 741	(W)	(W)	
\$5,000,000 to \$9,999,999	19	1	901	127 961	—	—	—	19	1	901	127 961	4	9	
\$2,500,000 to \$4,999,999	32	2	1 347	(D)	1	1	(D)	31	1	1 347	108 895	(W)	(W)	
\$1,000,000 to \$2,499,999	90	7	1 687	(D)	2	1	(D)	88	*6	1 687	135 291	6	9	
\$500,000 to \$999,999	116	39	1 103	330 596	8	7	10 464	108	*32	1 103	75 946	12	13	
\$250,000 to \$499,999	236	76	1 119	86 053	41	46	13 662	195	*30	1 119	72 391	14	14	
\$100,000 to \$249,999	470	261	1 029	73 091	137	130	20 475	333	131	1 029	52 616	14	11	
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	306	315	21 725	(S)	(S)	(S)	(S)	(S)	(S)	
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	495	492	17 434	(S)	(S)	(S)	(S)	(S)	(S)	
Less than \$25,000	(S)	(S)	(S)	(S)	2 420	2 404	17 176	(S)	(S)	(S)	(S)	(S)	(S)	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	696	692	11 115	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	504	504	3 638	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	404	403	1 443	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	816	805	981	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
1982														
The State	5 983	4 878	14 851	1 259 898	4 164	4 213	178 708	1 819	665	14 851	1 081 190	2	2	
\$10,000,000 or more	14	—	2 561	(D)	—	—	—	14	—	2 561	(D)	(W)	(D)	
\$5,000,000 to \$9,999,999	18	—	1 340	(D)	—	—	—	18	—	1 340	(D)	(W)	(D)	
\$2,500,000 to \$4,999,999	46	4	1 785	564 542	3	2	7 994	43	2	1 785	556 548	(W)	(W)	
\$1,000,000 to \$2,499,999	143	16	2 574	211 800	10	6	13 638	133	10	2 574	198 162	4	5	
\$500,000 to \$999,999	200	44	1 851	136 827	28	21	19 360	172	23	1 851	117 467	8	9	
\$250,000 to \$499,999	379	177	1 842	135 370	79	79	27 113	300	98	1 842	108 257	9	9	
\$100,000 to \$249,999	677	439	1 565	107 441	245	256	37 422	432	183	1 565	70 019	9	9	
\$50,000 to \$99,999	756	622	790	53 907	459	475	32 337	297	147	790	21 570	13	10	
\$25,000 to \$49,999	775	683	264	27 280	592	600	20 779	183	83	264	6 501	12	13	
Less than \$25,000	2 973	2 893	279	22 729	2 748	2 774	20 065	225	119	279	2 664	11	12	
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	835	850	13 162	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	645	649	4 399	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	671	674	1 907	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	597	601	597	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers	1 306	8 952	7 211	168 001	128 734	12 227	731 687	565 131
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	182	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	*18	*107	*95	*1 647	*1 472	60	10 690	7 538
1531	Operative builders	*13	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	*14	153	104	3 333	1 860	209	20 108	10 273
1542	Nonresidential buildings, n.e.c.	101	1 057	840	20 242	14 849	1 678	134 633	60 266
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	94	1 768	1 502	38 843	30 631	2 882	168 028	134 103
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	29	528	453	11 353	9 220	877	57 373	50 766
1629	Heavy construction, n.e.c.	112	915	747	20 607	15 736	1 295	77 565	66 655
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	151	761	567	13 394	9 752	867	50 939	43 974
1721	Painting and paper hanging	40	119	94	2 142	1 669	145	5 452	5 323
1731	Electrical work	138	969	737	19 692	15 027	1 371	56 090	55 236
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	40	137	120	1 647	1 413	100	5 124	4 929
1742	Plastering, drywall, and insulation work	*24	232	201	3 460	2 867	158	8 054	7 668
1743	Terrazzo, tile, marble, and mosaic work	*3	(D)	20	(D)	272	31	840	785
175	Carpentry and floor work:								
1751	Carpentry	44	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floor work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sheet metal work	55	417	336	5 833	4 528	504	21 284	19 956
1771	Concrete work	46	224	189	3 751	2 647	254	12 062	11 790
1781	Water well drilling	38	74	56	1 004	859	70	4 247	4 052
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	13	92	72	1 838	1 473	147	6 706	6 371
1793	Glass and glazing work	*15	57	39	904	687	*86	(D)	2 850
1794	Excavation work	45	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	*11	(D)	(S)	(D)	(S)	(S)	(S)	(S)
1799	Special trade contractors, n.e.c.	67	359	292	4 246	3 247	534	13 422	12 248
6552	Land subdividers and developers, n.e.c.	*4	(S)	(S)	(S)	(S)	(S)	(S)	(S)

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work subcontracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts†	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
344 334	240 868	166 556	20 390	16 236	231 653	14 851	1 038 734	511 670	2	2	7	15, 16, 17
												15
4 076	(S) *3 887	(S) 3 152	(S) (D)	(S) 54	(S) 331	1 258 177	83 199 18 005	32 076 6 008	(S) 59	(S) 40	(S) 17	152 1521 1522
(S)	(S)	(S)	(S)	(S)	(S)	305	47 171	17 999	(S)	(S)	(S)	1531
5 795 30 947	5 000 30 268	9 834 74 367	*223 1 357	1 305 1 657	2 166 19 219	127 1 451	11 402 199 498	4 983 60 665	31 8	30 7	30 18	154 1541 1542
												16
86 992	52 420	33 924	9 909	7 022	89 792	1 775	119 433	66 086	4	3	9	1611
35 387 40 882	(D) 16 816 27 001	(D) 6 606 10 910	(D) 1 489 3 483	(D) 1 134 1 456	(D) 17 343 42 814	(D) 864 651	(D) 63 556 42 683	(D) 41 540 30 361	(D) 8	(D) 3	(D) 8	162 1622 1623 1629
												17
27 566	19 160	6 965	485	1 173	8 570	1 201	66 564	32 153	10	12	31	1711
4 831	1 340	128	*47	*182	*2 376	256	6 124	4 434	18	21	48	1721
33 298	23 941	854	1 092	*1 032	14 280	1 687	93 666	54 928	8	8	43	1731
2 736 5 360 420	(D) *195 (D) 386 *365	(D) *43 129 *55	(D) 94 7	(D) 995 -	(D) 326 380 (D)	9 433 16 707 1 155	6 365 10 040 598	20 15 (D)	19 9 32	(D) 20 -	(D) 1742 1743	174
(S) (D)	(D) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	388 (S)	19 800 (S)	7 923 (S)	(S) (D)	(S) (D)	(S) (D)	175 1751 1752
11 041	8 927	1 328	367	*174	1 084	295	16 463	7 266	19	12	48	1761
7 794	(D)	*272	175	381	5 772	571	24 619	16 116	20	16	40	1771
2 102	(D)	(S)	*22	(D)	1 755	(S)	(S)	(S)	34	29	(D)	1781
4 341 2 014 (S)	(D) 1 743	335 (D) (S)	142 (S)	205 (D)	1 639 666 (S)	90 978	*6 858 65 197 (S)	3 925 48 173 (S)	8 40	5 29	(D) (D)	1791 1793 1794
(S)	(S)	(S)	(D)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	1795
8 403	5 528	1 174	196	*358	*2 582	542	26 229	14 855	21	18	48	1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	109	3 119	1 842	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	1 306	1 819	1 759	1 032	3	4	5	7
Proprietors and working partners	379	665	1 111	700	12	8	9	11
All employees**	8 952	14 851	13 175	7 379	2	2	3	4
Construction workers:								
March	5 659	11 675	9 559	5 103	3	2	3	4
May	7 452	12 630	12 024	6 664	3	2	3	5
August	8 574	13 447	13 472	7 642	2	2	3	4
November	7 158	11 509	11 617	6 048	3	2	3	5
Average	7 211	12 521	11 678	6 483	2	2	3	5
Other employees:								
March	1 680	2 316	1 370	888	4	4	5	8
May	1 664	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
August	1 882	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
November	1 736	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Average	1 740	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	2 237	4 569	(NA)	(NA)	4	2	(NA)	(NA)
April to June	3 168	5 347	(NA)	(NA)	3	3	(NA)	(NA)
July to September	3 760	5 616	(NA)	(NA)	3	3	(NA)	(NA)
October to December	3 061	4 579	(NA)	(NA)	4	3	(NA)	(NA)
Total hours worked	12 227	20 113	(NA)	(NA)	3	2	(NA)	(NA)
Payroll, all employees	168 001	253 400	151 945	61 506	2	2	2	3
Payroll, construction workers	128 734	204 582	130 005	52 403	2	2	2	4
Payroll, other employees	39 266	48 817	21 940	9 103	3	3	3	4
First quarter payroll, all employees	32 633	58 619	30 447	(NA)	3	2	2	(NA)
Employer costs for fringe benefits, all employees								
Legally required expenditures	32 484	44 321	22 597	(NA)	3	2	2	(NA)
Voluntary expenditures	23 043	34 614	14 818	(NA)	3	2	2	(NA)
9 441	9 706	7 779	(NA)	5	3	1	1	(NA)
Dollar value of business done	753 548	1 081 190	650 014	250 883	2	2	2	4
Value of construction work ¹	731 687	1 038 734	630 497	239 596	2	2	2	4
Value of construction work subcontracted in from others	140 105	194 816	130 120	35 281	6	5	4	10
Land receipts ²	*1 789	5 655	(NA)	(NA)	56	15	(NA)	(NA)
Other business receipts	20 071	36 800	19 517	11 287	7	5	8	7
Net value of construction†	565 131	808 260	519 838	192 300	2	2	2	4
Value added††	344 334	511 670	314 891	130 205	2	2	2	3
Selected costs								
Materials, components, and supplies ³	407 424	563 864	328 368	119 387	3	3	3	4
Construction work subcontracted to others	219 594	300 384	194 023	72 091	4	2	3	5
166 556	230 474	110 658	47 296	(NA)	4	3	4	5
Selected power, fuels, and lubricants								
Electricity	21 274	33 006	23 686	(NA)	2	3	2	(NA)
Natural gas	1 714	2 447	1 014	(NA)	4	4	6	(NA)
Gasoline and diesel fuel	733	1 219	646	(NA)	9	4	9	(NA)
On highway use	17 049	27 115	18 700	(NA)	2	3	2	(NA)
Off highway use	9 010	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	8 039	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1 776	2 224	3 334	(NA)	6	3	3	3	(NA)
Rental cost for machinery, equipment, and buildings	20 390	24 840	10 805	(NA)	4	3	4	(NA)
For machinery and equipment	16 731	20 871	9 347	8 370	4	3	4	2
For buildings	3 658	3 969	1 458	(NA)	8	6	6	(NA)
Selected purchased services								
Communication services	29 594	27 595	30 324	(NA)	3	3	2	(NA)
Repairs to buildings and other structures	3 238	4 522	2 550	(NA)	5	4	4	(NA)
Repairs to machinery and equipment	708	730	841	(NA)	18	6	12	(NA)
25 647	22 343	26 932	(NA)	3	3	2	2	(NA)
Ownership of construction projects:								
Value of construction work	731 687	1 038 734	630 497	239 596	2	2	2	4
Government owned	349 603	331 958	144 494	109 368	5	4	2	3
Federal	152 031	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)
State and local	197 571	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	382 084	706 776	486 003	130 228	4	3	3	6

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets	224 604	281 800	5	3
Capital expenditures, other than land	16 236	27 841	7	5
New	10 563	19 415	8	5
Used	5 673	8 425	13	8
Retirements and disposition of depreciable assets	9 188	12 748	15	6
End-of-year gross book value of depreciable assets	231 653	296 893	5	3
Depreciation charges during year	24 361	39 962	6	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets	30 094	41 115	14	7
Capital expenditures, other than land	1 709	3 237	38	6
New buildings and other structures	401	3 104	25	6
Used buildings and other structures	*1 307	133	48	24
Retirements and disposition of depreciable assets	232	1 837	27	12
End-of-year gross book value of depreciable assets	31 570	42 515	14	7
Depreciation charges during year	2 638	3 655	21	9
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets	194 510	240 684	5	3
Capital expenditures, other than land	14 527	24 604	6	6
New machinery and equipment, including automobiles and trucks	10 161	16 311	8	6
New automobiles and trucks, intended primarily for highway use	4 613	4 602	12	10
Used machinery and equipment, including automobiles and trucks	4 365	8 292	8	8
Retirements and disposition of depreciable assets	8 956	10 910	15	6
End-of-year gross book value of depreciable assets	200 082	254 378	5	2
Depreciation charges during year	21 723	36 306	6	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	1 306	3
Value of construction work	731 687	2
Establishments with inventories:		
Number	(S)	(S)
Value of construction work	(S)	(S)
Inventories ¹ :		
End of 1987, materials and supplies	(S)	(S)
End of 1986, materials and supplies	(S)	(S)
Establishments with no inventories:		
Number	(S)	(S)
Value of construction work	(S)	(S)
Establishments not reporting:		
Number	(S)	(S)
Value of construction work	(S)	(S)

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	1 306	(S)	232	132	61	21	6	—	—	—
All employees**	8 952	(S)	1 481	1 746	1 887	1 403	857	—	—	—
Payroll, all employees	168 001	(S)	21 771	34 293	41 110	31 533	19 224	—	—	—
Construction worker hours (thousands)	12 227	(S)	1 541	2 005	3 034	2 151	1 643	—	—	—
Dollar value business done	753 548	(S)	84 979	150 407	199 692	114 295	98 442	—	—	—
Value of construction work ¹	731 687	(S)	82 957	144 370	192 462	208 892	(D)	—	—	—
Net value of construction work†	565 131	(S)	73 445	110 924	142 023	83 322	68 045	—	—	—
Value added††	344 334	(S)	46 089	63 923	92 899	49 050	43 293	—	—	—
Cost of materials, components, supplies, and fuels	240 868	(S)	29 377	51 894	56 353	62 869	(D)	—	—	—
Cost of construction work subcontracted to others	166 556	(S)	9 511	33 446	50 439	57 525	(D)	—	—	—
Rental cost for machinery, equipment, and buildings	20 390	(S)	1 709	3 284	3 482	5 074	5 209	—	—	—
Capital expenditures, other than land	16 236	(S)	1 667	2 931	3 024	3 406	3 067	—	—	—
End-of-year gross book value of depreciable assets	231 653	(S)	31 326	43 020	57 308	40 060	35 044	—	—	—
1982										
All employees**	14 851	2 384	2 320	2 406	2 599	2 499	1 127	1 515	(D)	—
Value of construction work ¹	1 038 734	130 001	136 495	159 150	210 403	190 610	111 488	100 586	(D)	—
Value added††	511 670	66 955	65 940	82 191	108 096	104 205	(D)	(D)	(D)	—
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	(S)	13	8	4	(W)	(W)	—	—	—
Net value of construction work†	2	(S)	12	7	3	(W)	(W)	—	—	—
Capital expenditures, other than land	7	(S)	24	20	19	4	(W)	—	—	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	1 306	(S)	(S)	(S)	333	195	108	88	31	19	9
All employees**	8 952	(S)	(S)	(S)	1 029	1 119	1 103	1 687	1 347	901	928
Payroll, all employees	168 001	(S)	(S)	(S)	13 712	18 571	19 525	34 299	30 762	22 703	22 023
Construction worker hours (thousands)	12 227	(S)	(S)	(S)	1 267	1 007	1 446	2 340	2 216	1 353	1 713
Dollar value of business done	753 548	(S)	(S)	(S)	52 616	72 391	75 946	135 291	108 895	127 961	150 741
Value of construction work ¹	731 687	(S)	(S)	(S)	50 940	69 987	72 914	132 214	103 371	123 525	149 588
Net value of construction work†	565 131	(S)	(S)	(S)	105 578	(D)	60 983	108 755	87 546	80 616	94 403
Value added††	344 334	(S)	(S)	(S)	28 430	36 351	38 337	67 650	52 065	43 108	61 772
Cost of materials, components, supplies, and fuels	240 868	(S)	(S)	(S)	19 500	25 110	25 337	44 181	41 005	40 800	33 784
Cost of construction work subcontracted to others	166 556	(S)	(S)	(S)	15 349	(D)	11 931	23 459	15 825	42 909	55 185
Rental cost for machinery, equipment, and buildings	20 390	(S)	(S)	(S)	841	1 054	1 635	3 260	4 077	4 887	4 236
Capital expenditures, other than land	16 236	(S)	(S)	(S)	*1 014	1 169	1 795	3 724	1 449	2 960	3 285
End-of-year gross book value of depreciable assets	231 653	(S)	(S)	(S)	13 712	20 516	29 395	35 717	47 849	33 819	41 360
1982											
All employees**	14 851	279	264	790	1 565	1 842	1 851	2 574	1 785	1 340	2 561
Value of construction work ¹	1 038 734	2 612	6 299	21 062	68 236	103 896	110 834	189 311	154 473	113 548	268 461
Value added††	511 670	1 456	3 488	11 745	37 109	53 901	60 176	93 371	81 704	57 908	110 809
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	14	14	12	6	(W)	4	(W)
Net value of construction work†	2	(S)	(S)	(S)	11	(D)	13	9	(W)	7	(W)
Capital expenditures, other than land	7	(S)	(S)	(S)	58	32	29	18	10	7	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—							
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair								
					A	B	C	D				
1987												
Value of construction work¹												
Building construction												
Single-family houses	349 145	218 897	81 255	47 223	4	6	7	10				
Single-family houses, detached	91 696	64 379	17 048	10 267	14	18	17	14				
Single-family houses, attached	84 801	60 495	15 224	9 081	15	20	18	14				
Apartment buildings with two or more apartments	6 895	3 884	*1 824	1 186	20	15	47	29				
Other residential buildings, including hotels and motels	6 209	2 460	1 572	2 176	10	23	6	12				
Hotels and motels	12 366	3 934	*3 871	4 561	20	20	51	24				
Other residential buildings, excluding hotels and motels	8 093	2 896	*3 069	2 127	27	18	64	40				
Office buildings	4 273	*1 038	802	2 434	23	57	37	28				
Other commercial buildings such as stores, restaurants, and automobile service stations	27 780	14 667	9 096	4 016	14	12	35	8				
Industrial buildings and warehouses	71 595	52 096	12 596	6 902	6	6	15	17				
Industrial buildings	34 562	21 637	7 537	5 386	7	10	13	4				
Warehouses	29 830	19 036	5 900	4 893	7	11	12	3				
Religious buildings	4 732	2 601	*1 637	493	30	27	43	16				
Educational buildings	9 736	6 964	1 356	1 415	11	14	6	30				
Hospitals and institutional buildings	46 632	28 280	14 823	3 528	4	6	4	22				
Amusement, social, and recreational buildings	24 561	11 051	8 581	4 929	17	23	17	38				
Other nonresidential buildings	4 108	2 782	111	1 214	21	28	8	31				
Land development for buildings	(S)	(S)	4 659	1 905	(S)	(S)	40	24				
	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)				
Nonbuilding construction												
Highways, streets, and related facilities	346 557	181 943	128 553	36 060	2	4	2	6				
Parking areas including private driveways	155 194	47 901	98 001	9 292	2	4	1	8				
Fencing	6 473	4 379	781	1 311	19	19	20	26				
Bridges, tunnels, and elevated highways	*3 646	2 622	(D)	(D)	41	37	(D)	(D)				
Conservation and development construction	9 227	1 691	5 703	1 832	5	1	(W)	27				
Power and communication transmission lines, towers, and related facilities	15 207	10 755	3 228	1 223	28	38	27	10				
Sewers, water mains, and related facilities	32 631	24 010	7 227	1 394	9	2	27	20				
Sewers, sewer lines, and related facilities	26 544	21 928	1 928	2 687	7	7	6	28				
Water mains and related facilities	13 965	10 960	995	2 010	8	6	12	33				
Pipeline, other than sewer or water lines	12 579	10 968	933	*677	12	12	(W)	42				
Blast furnaces, petroleum refineries, and chemical complexes	5 431	4 283	*444	702	16	12	41	23				
Power plants	15 533	8 010	1 333	6 190	5	(W)	3	12				
Sewage treatment and water treatment plants	6 036	3 399	(D)	(D)	5	7	(D)	(D)				
Oilfields	6 784	5 694	783	*306	19	17	25	51				
Earthmoving, nonbuilding	13 946	9 582	2 387	1 975	9	10	8	8				
Other nonbuilding construction	22 926	18 835	2 034	2 056	16	17	35	39				
	26 979	18 854	6 037	13 282	4	5	2	6				
Construction work, n.s.k.	35 984	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)				
1982												
Value of construction work¹												
Building construction												
Single-family houses	547 703	484 077	(NA)	63 625	3	2	(NA)	5				
Single-family houses, detached	179 661	151 615	(NA)	28 046	6	6	(NA)	11				
Single-family houses, attached	138 847	114 538	(NA)	24 308	6	6	(NA)	12				
Apartment buildings with two or more apartments	40 813	37 076	(NA)	3 737	13	15	(NA)	15				
Other residential buildings, including hotels and motels	23 126	20 676	(NA)	2 449	11	12	(NA)	18				
Office buildings	21 587	19 196	(NA)	2 390	8	9	(NA)	13				
Other commercial buildings such as stores, restaurants, and automobile service stations	66 083	59 973	(NA)	6 110	5	5	(NA)	12				
Industrial buildings and warehouses	53 631	46 597	(NA)	7 034	5	5	(NA)	10				
Industrial buildings	54 291	46 030	(NA)	8 261	8	10	(NA)	11				
Warehouses	43 133	35 798	(NA)	7 334	10	12	(NA)	12				
Religious buildings	11 158	10 231	(NA)	927	13	14	(NA)	11				
Educational buildings	6 768	5 503	(NA)	1 265	8	10	(NA)	11				
Hospitals and institutional buildings	104 102	99 591	(NA)	4 511	3	3	(NA)	10				
Farm buildings	22 437	20 096	(NA)	2 340	2	2	(NA)	7				
Amusement, social, and recreational buildings	2 779	2 496	(NA)	282	9	10	(NA)	22				
Other nonresidential buildings	8 409	(D)	(NA)	(D)	8	(D)	(D)	(D)				
	4 823	(D)	(NA)	(D)	29	(D)	(NA)	(NA)				
Nonbuilding construction												
Highways, streets, and related facilities	398 521	323 730	(NA)	74 790	2	2	(NA)	4				
Parking areas including private driveways	128 321	97 170	(NA)	31 151	2	3	(NA)	3				
Fencing	*2 009	*1 826	(NA)	*183	50	55	(NA)	55				
Bridges, tunnels, and elevated highways	*4 132	*3 824	(NA)	*308	42	45	(NA)	56				
Dam and reservoir construction	84 472	(D)	(NA)	(D)	3	(D)	(NA)	(D)				
Conservation and development construction	2 922	(D)	(NA)	(D)	3	(D)	(NA)	(D)				
Power and communication transmission lines, towers, and related facilities	6 325	4 273	(NA)	*2 052	22	33	(NA)	41				
Sewers, water mains, and related facilities	16 430	16 067	(NA)	362	11	9	(NA)	39				
Sewers, sewer lines, and related facilities	42 008	38 101	(NA)	3 907	3	4	(NA)	8				
Water mains and related facilities	22 005	19 777	(NA)	2 227	5	4	(NA)	13				
Pipeline, other than sewer or water lines	20 003	18 324	(NA)	1 679	5	5	(NA)	10				
Heavy industrial facilities	19 803	15 647	(NA)	4 155	(W)	(W)	(NA)	(W)				
Blast furnaces, petroleum refineries, and chemical complexes	12 885	8 776	(NA)	4 109	7	8	(NA)	8				
Power plants	7 591	4 806	(NA)	2 785	12	15	(NA)	11				
Sewage treatment and water treatment plants	5 293	3 970	(NA)	1 323	(W)	(W)	(NA)	2				
Water treatment plants	12 464	12 412	(NA)	*52	11	11	(NA)	47				
Oilfields	4 729	4 699	(NA)	*30	21	21	(NA)	58				
Other nonbuilding construction	7 734	7 712	(NA)	(S)	12	12	(NA)	(S)				
	56 961	35 732	(NA)	21 229	6	5	(NA)	11				
	9 789	6 281	(NA)	3 447	16	16	(NA)	38				
Construction work, n.s.k.	92 509	79 151	(NA)	13 357	5	4	(NA)	7				

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	1 306	7 211	12 227	5 659	2 237	7 452	3 168
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	182	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings -----	*18	*95	60	*79	7	(S)	7
1531	Operative builders -----	*13	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	*14	104	209	79	48	76	40
1542	Nonresidential buildings, n.e.c. -----	101	840	1 678	646	292	903	467
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	94	1 502	2 882	763	314	1 722	804
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	29	453	877	357	167	435	199
1629	Heavy construction, n.e.c. -----	112	747	1 295	747	361	773	352
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning-----	151	567	867	542	197	572	220
1721	Painting and paper hanging -----	40	94	145	61	20	95	38
1731	Electrical work-----	138	737	1 371	688	308	737	333
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework-----	40	120	100	103	10	137	37
1742	Plastering, drywall, and insulation work-----	*24	201	158	190	38	154	37
1743	Terrazzo, tile, marble, and mosaic work -----	*3	20	31	23	8	23	8
175	Carpentry and floor work:							
1751	Carpentry -----	44	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floor work -----	1	(D)	(D)	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sheet metal work-----	55	336	504	264	80	333	121
1771	Concrete work-----	46	189	254	148	37	208	78
1781	Water well drilling-----	38	56	70	54	18	54	18
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	13	72	147	75	31	66	32
1793	Glass and glazing work -----	*15	39	*86	*37	15	39	*22
1794	Excavation work -----	45	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c. -----	*11	(S)	(S)	(S)	(S)	(S)	(D)
1799	Special trade contractors, n.e.c. -----	67	292	534	231	*107	271	118
6552	Land subdividers and developers, n.e.c. -----	*4	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—												1987 SIC code
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K			
H	I	J	K													
8 574	3 760	7 158	3 061	2	3	3	4	3	3	2	3	3	4			15, 16, 17
																15
(S) *106	(S) 21	(S) *77	(S) *23	(S) 58	(S) 33	(S) 67	(S) 17	(S) (S)	(S) 17	(S) 48	(S) 29	(S) 43	(S) 47			152 1521 1522
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)			1531
																154
1 016	95 531	165 796	70 386	30 7	36 9	30 8	36 9	26 8	35 10	24 8	33 10	37 8	39 9			1541 1542
																16
2 289	1 128	1 234	636	3	4	4	4	3	3	3	3	4	5			1611
																162 1622
(D) 498 686	(D) 236 285	(D) 521 784	(D) 274 295	(D) 7 7	(D) 12 13	(D) 4 7	(D) 8 21	(D) 5 7	(D) 9 16	(D) 6 8	(D) 9 9	(D) 13 8	(D) 20 10			1623 1629
																17
564	216	592	231	10	14	11	14	10	14	12	15	13	17			1711
129	53	92	32	20	23	26	25	16	29	23	26	17	14			1721
750	349	772	379	7	10	6	9	6	9	8	11	11	15			1731 174
120 263 18	28 46 6	119 200 19	22 36 7	18 14 32	20 19 32	38 14 37	14 20 37	31 15 37	33 20 37	23 20 24	27 16 24	23 16 30	21 21 30			1741 1742 1743
(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)	(S) (D)			175 1751 1752
390	165	358	137	19	23	21	18	24	35	19	24	21	23			1761
223	86	178	52	20	16	22	11	23	15	21	22	22	17			1771
69	23	*50	10	34	26	34	31	34	30	34	31	47	14			1781
74 42 (S)	41 *24 (S)	71 41 (S)	42 *24 (S)	6 38 (S)	24 46 (S)	18 41 (S)	21 38 (S)	5 39 (S)	22 47 (S)	(W) 36 (S)	26 49 (S)	(W) 37 (S)	28 47 (S)			1791 1793 1794
(S) 345	(S) 159	(S) 324	(S) 149	(S) 20	(S) 37	(S) 23	(S) 41	(S) 22	(S) 37	(S) 18	(S) 38	(S) 17	(D) 39			1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)			6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction Industries and land subdividers and developers	6.9	18.8	1 695.6	101.1	.230	.329	.228	.028
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	*5.9	*15.4	*631.6	*112.5	*.154	*.364	.295	(D)
1531	Operative builders	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	*10.9	21.8	2 009.6	193.3	.166	.249	.489	*.011
1542	Nonresidential buildings, n.e.c.	10.5	19.2	1 997.6	160.3	.150	.225	.552	.010
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	18.8	22.0	1 918.8	111.9	.231	.312	.202	.059
1622	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	18.2	21.5	1 936.0	126.7	.198	.293	.115	.026
1629	Heavy construction, n.e.c.	8.2	22.5	1 733.6	103.8	.266	.348	.141	.045
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	5.0	17.6	1 529.1	89.8	.263	.376	.137	.010
1721	Painting and paper hanging	3.0	18.0	1 542.6	58.0	.393	.246	.023	*.009
1731	Electrical work	7.0	20.3	1 860.2	76.1	.351	.427	.015	.019
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	3.4	12.0	833.3	42.7	.321	(D)	*.038	*.008
1742	Plastering, drywall, and insulation work	*9.7	14.9	786.1	40.1	.430	(D)	.048	.016
1743	Terrazzo, tile, marble, and mosaic work	(D)	(D)	1 550.0	(D)	(D)	*.435	*.065	.008
175	Carpentry and floor work:								
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
1752	Floor laying and other floor work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1761	Roofing, siding, and sneet metal work	7.6	14.0	1 500.0	63.3	.274	.419	.062	.017
1771	Concrete work	4.9	16.7	1 343.9	63.8	.311	(D)	*.023	.015
1781	Water well drilling	1.9	13.6	1 250.0	75.8	.236	(D)	(S)	*.005
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	7.1	20.0	2 041.7	93.1	.274	(D)	.050	.021
1793	Glass and glazing work	*3.8	15.9	*2 205.1	(D)	(D)	(D)	(S)	(S)
1794	Excavation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	(D)	(D)	(S)	(D)	(D)	(S)	(S)	(D)
1799	Special trade contractors, n.e.c.	5.4	11.8	1 828.8	46.0	.316	.412	.087	.015
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

APPENDIX A. Explanation of Terms

Construction—Is composed of three broad categories:

1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
2. **Additions, alterations or reconstruction**—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment

operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems; etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

- all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It

excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale.

Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted in from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

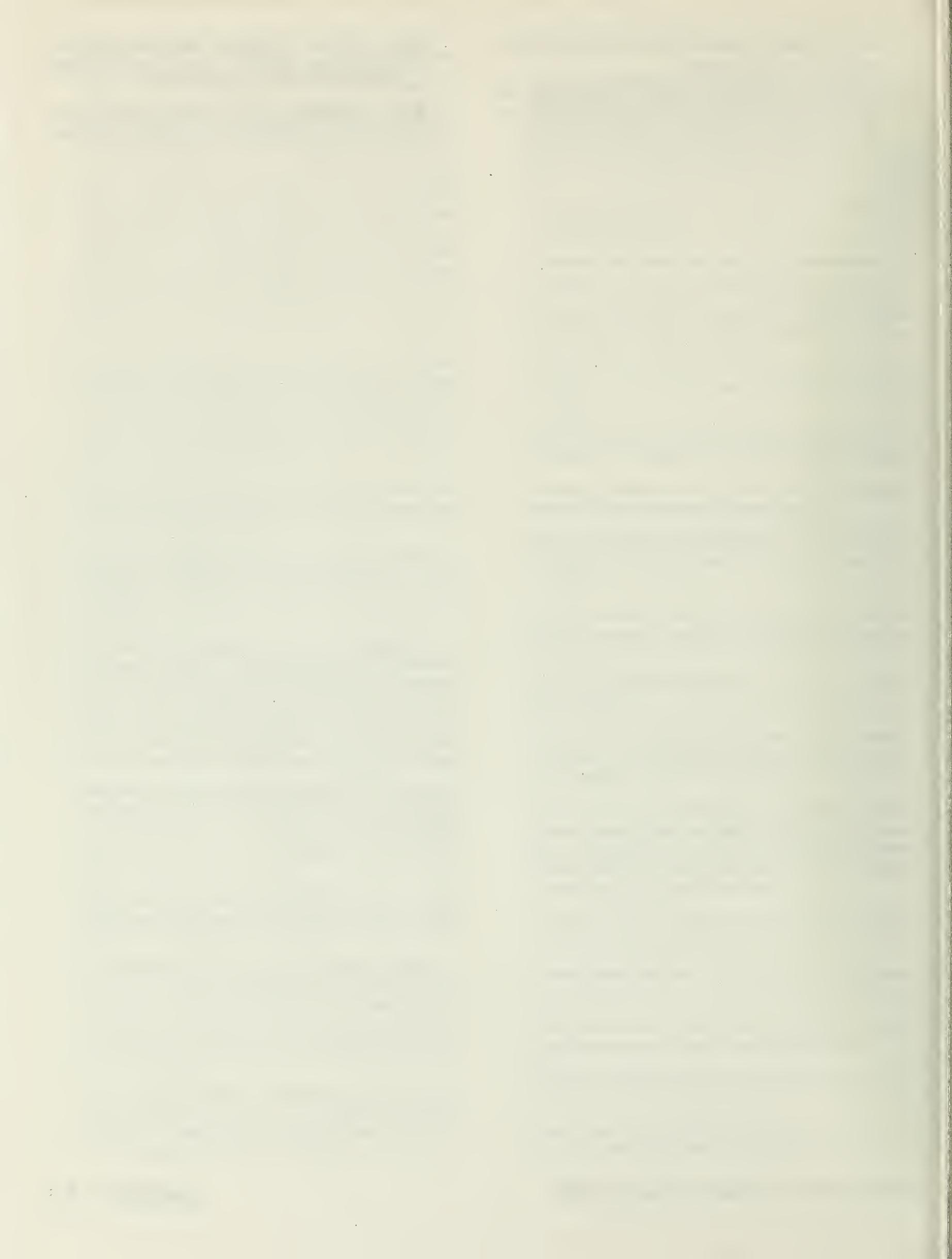
- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (include town-houses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- **Hotels and motels**—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- **Other residential buildings**—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- **Other commercial buildings, such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- **Highways, streets and related work, such as installation of guardrails, highway signs, etc.**—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Recreational facilities**—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Bridges and elevated highways**—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- **Tunnels**—Includes highway, pedestrian, and railroad tunnels.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities**—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants, and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers, and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.

- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.



APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
161	Highway and Street Construction, Except Elevated Highways	176	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Powerline Construction	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting and Paper Hanging Special Trade Contractors	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified
		6552	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES

APPENDIX C.

Regions, Census Divisions, and States

NORTHEAST

New England States

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Middle Atlantic States

New Jersey
New York
Pennsylvania

MIDWEST

East North Central States

Illinois
Indiana
Michigan
Ohio
Wisconsin

West North Central States

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH

South Atlantic States

Delaware
District of Columbia
Florida
Georgia
Maryland

South Atlantic States—Con.

North Carolina
South Carolina
Virginia
West Virginia

East South Central States

Alabama
Kentucky
Mississippi
Tennessee

West South Central States

Arkansas
Louisiana
Oklahoma
Texas

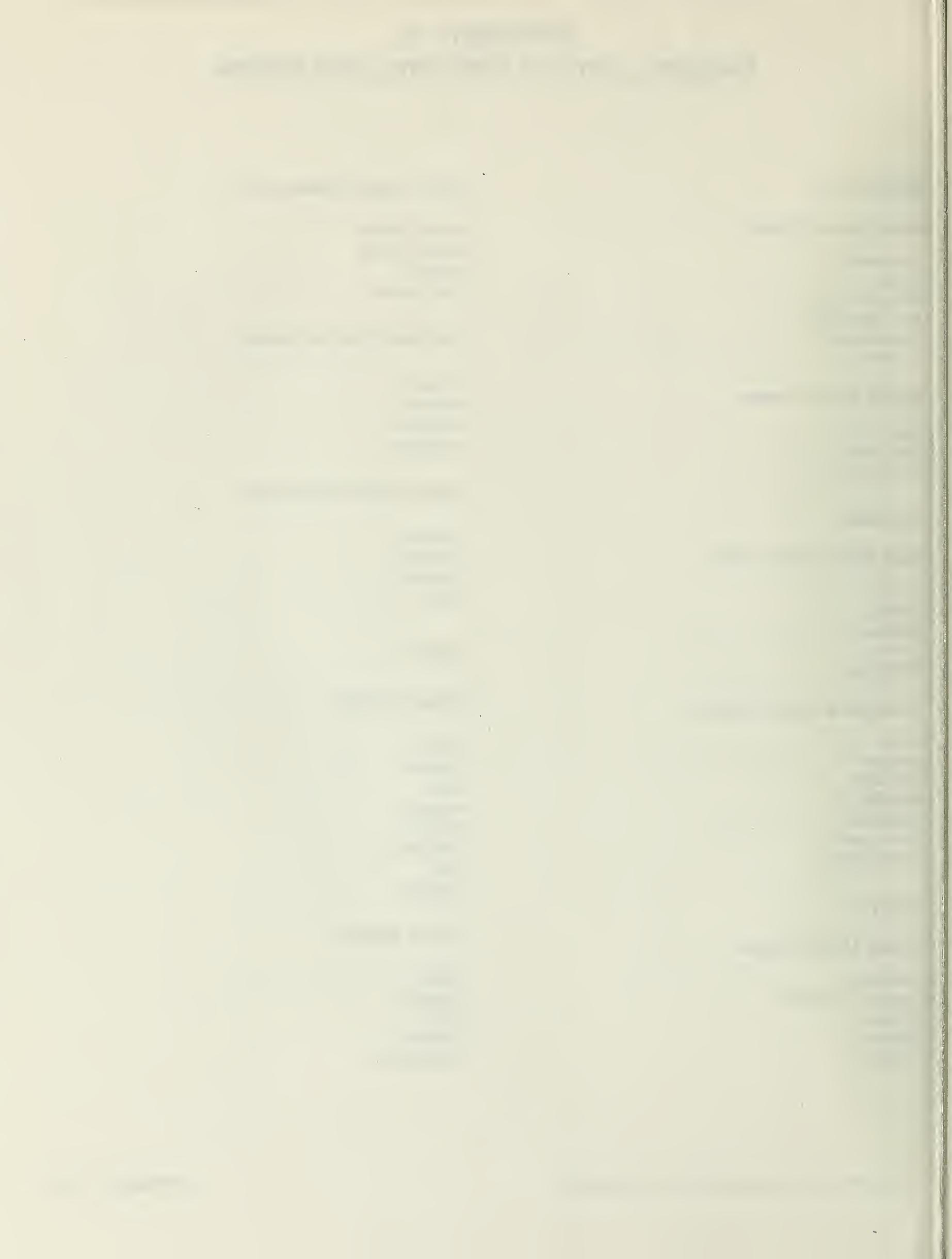
WEST

Mountain States

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Pacific States

Alaska
California
Hawaii
Oregon
Washington



APPENDIX D.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

Abilene, TX MSA	Atlanta, GA MSA—Con.	Beaumont-Port Arthur, TX MSA
Taylor County, TX	Fayette County, GA	Hardin County, TX
Akron, OH PMSA—see Cleveland-Akron-	Forsyth County, GA	Jefferson County, TX
Lorain, OH CMSA	Fulton County, GA	Orange County, TX
Albany, GA MSA	Gwinnett County, GA	Beaver County, PA PMSA—see Pittsburgh-
Dougherty County, GA	Henry County, GA	Beaver Valley, PA CMSA
Lee County, GA	Newton County, GA	Bellingham, WA MSA
Albany-Schenectady-Troy, NY MSA	Paulding County, GA	Whatcom County, WA
Albany County, NY	Rockdale County, GA	Benton Harbor, MI MSA
Greene County, NY	Spalding County, GA	Berrien County, MI
Montgomery County, NY	Walton County, GA	Bergen-Passaic, NJ PMSA—see New York-
Rensselaer County, NY	Atlantic City, NJ MSA	Northern New Jersey-Long Island, NY-NJ-
Saratoga County, NY	Atlantic County, NJ	CT CMSA
Schenectady County, NY	Cape May County, NJ	Billings, MT MSA
Albuquerque, NM MSA	Augusta, GA-SC MSA	Yellowstone County, MT
Bernalillo County, NM	Columbia County, GA	Biloxi-Gulfport, MS MSA
Alexandria, LA MSA	McDuffie County, GA	Hancock County, MS
Rapides Parish, LA	Richmond County, GA	Harrison County, MS
Allentown-Bethlehem, PA-NJ MSA	Aiken County, SC	Binghamton, NY MSA
Warren County, NJ	Aurora-Elgin, IL PMSA—see Chicago-Gary-	Broome County, NY
Carbon County, PA	Lake County, IL-IN-WI CMSA	Tioga County, NY
Lehigh County, PA	Austin, TX MSA	Birmingham, AL MSA
Northampton County, PA	Hays County, TX	Blount County, AL
Altoona, PA MSA	Travis County, TX	Jefferson County, AL
Blair County, PA	Williamson County, TX	St. Clair County, AL
Amarillo, TX MSA	Bakersfield, CA MSA	Shelby County, AL
Potter County, TX	Kern County, CA	Walker County, AL
Randall County, TX	Baltimore, MD MSA	Bismarck, ND MSA
Anaheim-Santa Ana, CA PMSA—see Los	Anne Arundel County, MD	Burleigh County, ND
Anaheim-Anaheim-Riverside, CA CMSA	Baltimore County, MD	Morton County, ND
Anchorage, AK MSA	Carroll County, MD	Bloomington, IN MSA
Anchorage Borough, AK	Harford County, MD	Monroe County, IN
Anderson, IN MSA	Howard County, MD	Bloomington-Normal, IL MSA
Madison County, IN	Queen Anne's County, MD	McLean County, IL
Anderson, SC MSA	Baltimore city, MD	Boise City, ID MSA
Anderson County, SC	Bangor, ME MSA	Ada County, ID
Ann Arbor, MI PMSA—see Detroit-Ann Arbor,	Penobscot County, ME (part)	Boston, MA PMSA—see Boston-Lawrence-
MI CMSA	Bangor city, ME	Salem, MA-NH CMSA
Anniston, AL MSA	Brewer city, ME	Boston-Lawrence-Salem, MA-NH CMSA
Calhoun County, AL	Eddington town, ME	Boston, MA PMSA
Appleton-Oshkosh-Neenah, WI MSA	Glenburn town, ME	Bristol County, MA (part)
Calumet County, WI	Hampden town, ME	Mansfield town, MA
Outagamie County, WI	Hermon town, ME	Norton town, MA
Winnebago County, WI	Holden town, ME	Raynham town, MA
Asheville, NC MSA	Kenduskeag town, ME	Essex County, MA (part)
Buncombe County, NC	Old Town city, ME	Lynn city, MA
Athens, GA MSA	Orono town, ME	Lynnfield town, MA
Clarke County, GA	Orrington town, ME	Nahant town, MA
Jackson County, GA	Penobscot Indian Island Indian Reser-	Saugus town, MA
Madison County, GA	vation, ME	Middlesex County, MA (part)
Ocnee County, GA	Veazie town, ME	Acton town, MA
Atlanta, GA MSA	Waldo County, ME (part)	Arlington town, MA
Barrow County, GA	Winterport town, ME	Ashland town, MA
Butts County, GA	Baton Rouge, LA MSA	Ayer town, MA
Cherokee County, GA	Ascension Parish, LA	Bedford town, MA
Clayton County, GA	East Baton Rouge Parish, LA	Belmont town, MA
Cobb County, GA	Livingston Parish, LA	Boxborough town, MA
Coweta County, GA	West Baton Rouge Parish, LA	Burlington town, MA
De Kalb County, GA	Battle Creek, MI MSA	Cambridge city, MA
Douglas County, GA	Calhoun County, MI	Carlisle town, MA
		Concord town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA
 Framingham town, MA
 Groton town, MA
 Holliston town, MA
 Hopkinton town, MA
 Hudson town, MA
 Lexington town, MA
 Lincoln town, MA
 Littleton town, MA
 Malden city, MA
 Marlborough city, MA
 Maynard town, MA
 Medford city, MA
 Melrose city, MA
 Natick town, MA
 Newton city, MA
 North Reading town, MA
 Reading town, MA
 Sherborn town, MA
 Shirley town, MA
 Somerville city, MA
 Stoneham town, MA
 Stow town, MA
 Sudbury town, MA
 Townsend town, MA
 Wakefield town, MA
 Waltham city, MA
 Watertown town, MA
 Wayland town, MA
 Weston town, MA
 Wilmington town, MA
 Winchester town, MA
 Woburn city, MA
 Norfolk County, MA (part)
 Bellingham town, MA
 Braintree town, MA
 Brookline town, MA
 Canton town, MA
 Cohasset town, MA
 Dedham town, MA
 Dover town, MA
 Foxborough town, MA
 Franklin town, MA
 Holbrook town, MA
 Medfield town, MA
 Medway town, MA
 Millis town, MA
 Milton town, MA
 Needham town, MA
 Norfolk town, MA
 Norwood town, MA
 Quincy city, MA
 Randolph town, MA
 Sharon town, MA
 Stoughton town, MA
 Walpole town, MA
 Wellesley town, MA
 Westwood town, MA
 Weymouth town, MA
 Wrentham town, MA
 Plymouth County, MA (part)
 Carver town, MA
 Duxbury town, MA
 Hanover town, MA
 Hanson town, MA
 Hingham town, MA
 Hull town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.
 Kingston town, MA
 Lakeville town, MA
 Marshfield town, MA
 Middleborough town, MA
 Norwell town, MA
 Pembroke town, MA
 Plymouth town, MA
 Plympton town, MA
 Rockland town, MA
 Scituate town, MA
 Suffolk County, MA (part)
 Boston city, MA
 Chelsea city, MA
 Revere city, MA
 Winthrop town, MA
 Worcester County, MA (part)
 Berlin town, MA
 Bolton town, MA
 Harvard town, MA
 Hopedale town, MA
 Lancaster town, MA
 Mendon town, MA
 Milford town, MA
 Southborough town, MA
 Upton town, MA
 Brockton, MA PMSA
 Bristol County, MA (part)
 Easton town, MA
 Norfolk County, MA (part)
 Avon town, MA
 Plymouth County, MA (part)
 Abington town, MA
 Bridgewater town, MA
 Brockton city, MA
 East Bridgewater town, MA
 Halifax town, MA
 West Bridgewater town, MA
 Whitman town, MA
 Lawrence-Haverhill, MA-NH PMSA
 Essex County, MA (part)
 Amesbury town, MA
 Andover town, MA
 Boxford town, MA
 Georgetown town, MA
 Groveland town, MA
 Haverhill city, MA
 Lawrence city, MA
 Merrimac town, MA
 Methuen town, MA
 Newbury town, MA
 Newburyport city, MA
 North Andover town, MA
 Salisbury town, MA
 West Newbury town, MA
 Rockingham County, NH (part)
 Atkinson town, NH
 Brentwood town, NH
 Danville town, NH
 Derry town, NH
 East Kingston town, NH
 Hampstead town, NH
 Kingston town, NH
 Newton town, NH
 Plaistow town, NH
 Salem town, NH
 Sandown town, NH
 Seabrook town, NH
 Windham town, NH

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA
 Chelmsford town, MA
 Dracut town, MA
 Dunstable town, MA
 Lowell city, MA
 Pepperell town, MA
 Tewksbury town, MA
 Tyngsborough town, MA
 Westford town, MA
 Hillsborough County, NH (part)
 Pelham town, NH
 Nashua, NH PMSA
 Hillsborough County, NH (part)
 Amherst town, NH
 Brookline town, NH
 Hollis town, NH
 Hudson town, NH
 Litchfield town, NH
 Merrimack town, NH
 Milford town, NH
 Mont Vernon town, NH
 Nashua city, NH
 Wilton town, NH
 Rockingham County, NH (part)
 Londonderry town, NH
 Salem-Gloucester, MA PMSA
 Essex County, MA (part)
 Beverly city, MA
 Danvers town, MA
 Essex town, MA
 Gloucester city, MA
 Hamilton town, MA
 Ipswich town, MA
 Manchester town, MA
 Marblehead town, MA
 Middleton town, MA
 Peabody city, MA
 Rockport town, MA
 Rowley town, MA
 Salem city, MA
 Swampscott town, MA
 Topsfield town, MA
 Wenham town, MA

Boulder-Longmont, CO PMSA—see Denver-Boulder, CO CMSA**Bradenton, FL MSA**

Manatee County, FL

Brazoria, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA**Bremerton, WA MSA**

Kitsap County, WA

Bridgeport-Milford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Bristol, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA****Brockton, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA****Brownsville-Harlingen, TX MSA**

Cameron County, TX

Bryan-College Station, TX MSA

Brazos County, TX

Buffalo, NY PMSA—see Buffalo-Niagara Falls, NY CMSA

Buffalo-Niagara Falls, NY CMSA	Chicago-Gary-Lake County, IL-IN-WI CMSA	Cumberland, MD-WV MSA
Buffalo, NY PMSA	Aurora-Elgin, IL PMSA	Allegany County, MD
Erie County, NY	Kane County, IL	Mineral County, WV
Niagara Falls, NY PMSA	Kendall County, IL	Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA
Niagara County, NY	Chicago, IL PMSA	Dallas-Fort Worth, TX CMSA
Burlington, NC MSA	Cook County, IL	Dallas, TX PMSA
Alamance County, NC	Du Page County, IL	Collin County, TX
Burlington, VT MSA	McHenry County, IL	Dallas County, TX
Chittenden County, VT (part)	Gary-Hammond, IN PMSA	Denton County, TX
Burlington city, VT	Lake County, IN	Ellis County, TX
Charlotte town, VT	Porter County, IN	Kaufman County, TX
Colchester town, VT	Joliet, IL PMSA	Rockwall County, TX
Essex Junction village, VT	Grundy County, IL	Fort Worth-Arlington, TX PMSA
Essex town balance, VT	Will County, IL	Johnson County, TX
Hinesburg town, VT	Kenosha, WI PMSA	Parker County, TX
Jericho town, VT	Kenosha County, WI	Tarrant County, TX
Jericho village, VT	Lake County, IL PMSA	Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Milton town, VT	Lake County, IL	Danville, VA MSA
Milton village, VT	Chico, CA MSA	Pittsylvania County, VA
Richmond town, VT	Butte County, CA	Danville city, VA
Richmond village, VT	Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA	Davenport-Rock Island-Moline, IA-IL MSA
St. George town, VT	Cincinnati, OH-KY-IN CMSA	Henry County, IL
Shelburne town, VT	Cincinnati, OH-KY-IN PMSA	Rock Island County, IL
South Burlington city, VT	Dearborn County, IN	Scott County, IA
Williston town, VT	Boone County, KY	Dayton-Springfield, OH MSA
Winooski city, VT	Campbell County, KY	Clark County, OH
Franklin County, VT (part)	Kenton County, KY	Greene County, OH
Georgia town, VT	Clermont County, OH	Miami County, OH
Grand Isle town, VT	Hamilton County, OH	Montgomery County, OH
South Hero town, VT	Warren County, OH	Daytona Beach, FL MSA
Canton, OH MSA	Hamilton-Middletown, OH PMSA	Volusia County, FL
Carroll County, OH	Butler County, OH	Decatur, IL MSA
Stark County, OH	Clarksville-Hopkinsville, TN-KY MSA	Macon County, IL
Casper, WY MSA	Christian County, KY	Denver, CO PMSA—see Denver-Boulder, CO CMSA
Natrona County, WY	Montgomery County, TN	Denver-Boulder, CO CMSA
Cedar Rapids, IA MSA	Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA	Boulder-Longmont, CO PMSA
Linn County, IA	Cleveland-Akron-Lorain, OH CMSA	Boulder County, CO
Champaign-Urbana-Rantoul, IL MSA	Akron, OH PMSA	Denver, CO PMSA
Champaign County, IL	Portage County, OH	Adams County, CO
Charleston, SC MSA	Summit County, OH	Arapahoe County, CO
Berkeley County, SC	Cleveland, OH PMSA	Denver County, CO
Charleston County, SC	Cuyahoga County, OH	Douglas County, CO
Dorchester County, SC	Geauga County, OH	Jefferson County, CO
Charleston, WV MSA	Lake County, OH	Des Moines, IA MSA
Kanawha County, WV	Medina County, OH	Dallas County, IA
Putnam County, WV	Lorain-Elyria, OH PMSA	Polk County, IA
Charlotte-Gastonia-Rock Hill, NC-SC MSA	Lorain County, OH	Warren County, IA
Cabarrus County, NC	Colorado Springs, CO MSA	Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA
Gaston County, NC	El Paso County, CO	Detroit-Ann Arbor, MI CMSA
Lincoln County, NC	Columbia, MO MSA	Ann Arbor, MI PMSA
Mecklenburg County, NC	Boone County, MO	Washtenaw County, MI
Rowan County, NC	Columbia, SC MSA	Detroit, MI PMSA
Union County, NC	Lexington County, SC	Lapeer County, MI
York County, SC	Richland County, SC	Livingston County, MI
Charlottesville, VA MSA	Columbus, GA-AL MSA	Macomb County, MI
Albemarle County, VA	Russell County, AL	Monroe County, MI
Fluvanna County, VA	Chattahoochee County, GA	Oakland County, MI
Greene County, VA	Muscogee County, GA	St. Clair County, MI
Charlottesville city, VA	Columbus, OH MSA	Wayne County, MI
Chattanooga, TN-GA MSA	Delaware County, OH	Dothan, AL MSA
Catoosa County, GA	Fairfield County, OH	Dale County, AL
Dade County, GA	Franklin County, OH	Houston County, AL
Walker County, GA	Licking County, OH	Dubuque, IA MSA
Hamilton County, TN	Madison County, OH	Dubuque County, IA
Marion County, TN	Pickaway County, OH	
Squatchie County, TN	Union County, OH	
Cheyenne, WY MSA	Corpus Christi, TX MSA	
Laramie County, WY	Nueces County, TX	
Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA	San Patricio County, TX	

Duluth, MN-WI MSA	Fresno, CA MSA	Hartford-New Britain-Middletown, CT CMSA
St. Louis County, MN	Fresno County, CA	Con.
Douglas County, WI		Hartford, CT PMSA—Con.
Eau Claire, WI MSA	Gadsden, AL MSA	Hartford County, CT (part)—Con.
Chippewa County, WI	Etowah County, AL	Newington town, CT
Eau Claire County, WI		Rocky Hill town, CT
El Paso, TX MSA	Gainesville, FL MSA	Simsbury town, CT
El Paso County, TX	Alachua County, FL	South Windsor town, CT
Elkhart-Goshen, IN MSA	Bradford County, FL	Suffield town, CT
Elkhart County, IN		West Hartford town, CT
Elmira, NY MSA	Galveston-Texas City, TX PMSA —see Houston-Galveston-Brazoria, TX CMSA	Wethersfield town, CT
Chemung County, NY		Windsor Locks town, CT
Enid, OK MSA	Gary-Hammond, IN PMSA —see Chicago-Gary-Lake County, IL-IN-WI CMSA	Windsor town, CT
Garfield County, OK		Litchfield County, CT (part)
Erie, PA MSA	Glens Falls, NY MSA	Barkhamsted town, CT
Erie County, PA	Warren County, NY	New Hartford town, CT
Eugene-Springfield, OR MSA	Washington County, NY	East Haddam town, CT
Lane County, OR		New London County, CT (part)
Evansville, IN-KY MSA	Grand Forks, ND MSA	Colchester borough, CT
Posey County, IN	Grand Forks County, ND	Colchester town balance, CT
Vanderburgh County, IN		Tolland County, CT (part)
Warrick County, IN		Andover town, CT
Henderson County, KY		Bolton town, CT
Fall River, MA-RI PMSA —see Providence-Pawtucket-Fall River, RI-MA CMSA	Great Falls, MT MSA	Columbia town, CT
Fargo-Moorhead, ND-MN MSA	Cascade County, MT	Coventry town, CT
Clay County, MN		Ellington town, CT
Cass County, ND		Hebron town, CT
Fayetteville, NC MSA	Greeley, CO MSA	Somers town, CT
Cumberland County, NC	Weld County, CO	Stafford Springs borough, CT
Fayetteville-Springdale, AR MSA		Stafford town balance, CT
Washington County, AR		Tolland town, CT
Fitchburg-Leominster, MA MSA	Green Bay, WI MSA	Vernon town, CT
Middlesex County, MA (part)	Brown County, WI	Willington town, CT
Ashby town, MA		Middletown, CT PMSA
Worcester County, MA (part)	Greensboro-Winston-Salem-High Point, NC MSA	Middlesex County, CT (part)
Ashburnham town, MA	Davidson County, NC	Cromwell town, CT
Fitchburg city, MA	Davie County, NC	Durham town, CT
Leominster city, MA	Forsyth County, NC	East Hampton town, CT
Lunenburg town, MA	Guilford County, NC	Haddam town, CT
Westminster town, MA	Randolph County, NC	Middlefield town, CT
Flint, MI MSA	Stokes County, NC	Middletown city, CT
Genesee County, MI	Yadkin County, NC	Portland town, CT
Florence, AL MSA	Greenville-Spartanburg, SC MSA	New Britain, CT PMSA
Colbert County, AL	Greenville County, SC	Hartford County, CT (part)
Lauderdale County, AL	Pickens County, SC	Berlin town, CT
Florence, SC MSA	Spartanburg County, SC	New Britain city, CT
Florence County, SC		Plainville town, CT
Fort Collins-Loveland, CO MSA	Hagerstown, MD MSA	Southington town, CT
Larimer County, CO	Washington County, MD	Hickory, NC MSA
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA —see Miami-Fort Lauderdale, FL CMSA	Hamilton-Middletown, OH PMSA —see Cincinnati-Hamilton, OH-KY-IN CMSA	Alexander County, NC
Fort Myers-Cape Coral, FL MSA	Harrisburg-Lebanon-Carlisle, PA MSA	Burke County, NC
Lee County, FL	Cumberland County, PA	Catawba County, NC
Fort Pierce, FL MSA	Dauphin County, PA	Honolulu, HI MSA
Martin County, FL	Lebanon County, PA	Honolulu County, HI
St. Lucie County, FL	Perry County, PA	Houma-Thibodaux, LA MSA
Fort Smith, AR-OK MSA	Hartford, CT PMSA —see Hartford-New Britain-Middletown, CT CMSA	Lafourche Parish, LA
Crawford County, AR	Hartford County, CT (part)	Terrebonne Parish, LA
Sebastian County, AR	Bristol city, CT	Houston, TX PMSA —see Houston-Galveston-Brazoria, TX CMSA
Sequoyah County, OK	Burlington town, CT	Houston-Galveston-Brazoria, TX CMSA
Fort Walton Beach, FL MSA	Litchfield County, CT (part)	Brazoria, TX PMSA
Okaloosa County, FL	Plymouth town, CT	Brazoria County, TX
Fort Wayne, IN MSA	Hartford, CT PMSA	Galveston-Texas City, TX PMSA
Allen County, IN	Hartford County, CT (part)	Galveston County, TX
De Kalb County, IN	Avon town, CT	Houston, TX PMSA
Whitley County, IN	Bloomfield town, CT	Fort Bend County, TX
Fort Worth-Arlington, TX PMSA —see Dallas-Fort Worth, TX CMSA	Canton town, CT	Harris County, TX
	East Granby town, CT	Liberty County, TX
	East Hartford town, CT	Montgomery County, TX
	East Windsor town, CT	Waller County, TX
	Enfield town, CT	
	Farmington town, CT	
	Glastonbury town, CT	
	Granby town, CT	
	Hartford city, CT	
	Manchester town, CT	
	Marlborough town, CT	

Huntington-Ashland, WV-KY-OH MSA	Boyd County, KY Carter County, KY Greenup County, KY Lawrence County, OH Cabell County, WV Wayne County, WV	Kenosha, WI PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA	Longview-Marshall, TX MSA
Huntsville, AL MSA	Madison County, AL	Killeen-Temple, TX MSA	Gregg County, TX Harrison County, TX
Indianapolis, IN MSA	Boone County, IN Hamilton County, IN Hancock County, IN Hendricks County, IN Johnson County, IN Marion County, IN Morgan County, IN Shelby County, IN	Knoxville, TN MSA	Lorain-Elyria, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA
Iowa City, IA MSA	Johnson County, IA	Kokomo, IN MSA	Los Angeles-Anaheim-Riverside, CA CMSA
Jackson, MI MSA	Jackson County, MI	Howard County, IN Tipton County, IN	Anaheim-Santa Ana, CA PMSA
Jackson, MS MSA	Hinds County, MS Madison County, MS Rankin County, MS	La Crosse, WI MSA	Orange County, CA
Jackson, TN MSA	Madison County, TN	La Crosse County, WI	Los Angeles-Long Beach, CA PMSA
Jacksonville, FL MSA	Clay County, FL Duval County, FL Nassau County, FL St. Johns County, FL	Lafayette, LA MSA	Los Angeles County, CA
Jacksonville, NC MSA	Onslow County, NC	Lafayette Parish, LA St. Martin Parish, LA	Oxnard-Ventura, CA PMSA
Janesville-Beloit, WI MSA	Rock County, WI	Lafayette-West Lafayette, IN MSA	Ventura County, CA
Jersey City, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA		Tippecanoe County, IN	Riverside-San Bernardino, CA PMSA
Johnson City-Kingsport-Bristol, TN-VA MSA	Carter County, TN Hawkins County, TN Sullivan County, TN Unicoi County, TN Washington County, TN Scott County, VA Washington County, VA Bristol city, VA	Lake Charles, LA MSA	Riverside County, CA
Johnstown, PA MSA	Cambria County, PA Somerset County, PA	Lake County, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA	San Bernardino County, CA
Joliet, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA		Lakeland-Winter Haven, FL MSA	Los Angeles-Long Beach, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA
Joplin, MO MSA	Jasper County, MO Newton County, MO	Polk County, FL	
Kalamazoo, MI MSA	Kalamazoo County, MI	Lancaster, PA MSA	Louisville, KY-IN MSA
Kankakee, IL MSA	Kankakee County, IL	Lancaster County, PA	Clark County, IN Floyd County, IN Harrison County, IN
Kansas City, MO-KS MSA	Johnson County, KS Leavenworth County, KS Miami County, KS Wyandotte County, KS Cass County, MO Clay County, MO Jackson County, MO Lafayette County, MO Platte County, MO Ray County, MO	Lansing-East Lansing, MI MSA	Bullitt County, KY Jefferson County, KY Oldham County, KY Shelby County, KY
		Clinton County, MI Eaton County, MI Ingham County, MI	Lowell, MA-NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA
		Laredo, TX MSA	Lubbock, TX MSA
		Webb County, TX	Lubbock County, TX
		Las Cruces, NM MSA	Lynchburg, VA MSA
		Dona Ana County, NM	Amherst County, VA Campbell County, VA Lynchburg city, VA
		Las Vegas, NV MSA	Macon-Warner Robins, GA MSA
		Clark County, NV	Bibb County, GA Houston County, GA Jones County, GA Peach County, GA
		Lawrence, KS MSA	Madison, WI MSA
		Douglas County, KS	Dane County, WI
		Lawrence-Haverhill, MA-NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA	Manchester, NH MSA
			Hillsborough County, NH (part)
		Lawton, OK MSA	Bedford town, NH
		Comanche County, OK	Goffstown town, NH
		Lewiston-Auburn, ME MSA	Manchester city, NH
		Androscoggin County, ME (part)	Merrimack County, NH (part)
		Auburn city, ME	Allenstown town, NH
		Greene town, ME	Hooksett town, NH
		Lewiston city, ME	Auburn town, NH
		Lisbon town, ME	Candia town, NH
		Mechanic Falls town, ME	Mansfield, OH MSA
		Poland town, ME	Richland County, OH
		Sabattus town, ME	McAllen-Edinburg-Mission, TX MSA
		Lexington-Fayette, KY MSA	Hidalgo County, TX
		Bourbon County, KY	Medford, OR MSA
		Clark County, KY	Jackson County, OR
		Fayette County, KY	Melbourne-Titusville-Palm Bay, FL MSA
		Jessamine County, KY	Brevard County, FL
		Scott County, KY	Memphis, TN-AR-MS MSA
		Woodford County, KY	Crittenden County, AR
		Lima, OH MSA	De Soto County, MS
		Allen County, OH	Shelby County, TN
		Auglaize County, OH	Tipton County, TN
		Lincoln, NE MSA	Merced, CA MSA
		Lancaster County, NE	Merced County, CA
		Little Rock-North Little Rock, AR MSA	Miami-Fort Lauderdale, FL CMSA
		Faulkner County, AR	Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA
		Lonoke County, AR	Broward County, FL
		Pulaski County, AR	Miami-Hialeah, FL PMSA
		Saline County, AR	Dade County, FL

Miami-Hialeah, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Middlesex-Somerset-Hunterdon, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Middletown, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Midland, TX MSA

Midland County, TX

Milwaukee, WI PMSA—see Milwaukee-Racine, WI CMSA

Milwaukee-Racine, WI CMSA

Milwaukee, WI PMSA

Milwaukee County, WI

Ozaukee County, WI

Washington County, WI

Waukesha County, WI

Racine, WI PMSA

Racine County, WI

Minneapolis-St. Paul, MN-WI MSA

Anoka County, MN

Carver County, MN

Chisago County, MN

Dakota County, MN

Hennepin County, MN

Isanti County, MN

Ramsey County, MN

Scott County, MN

Washington County, MN

Wright County, MN

St. Croix County, WI

Mobile, AL MSA

Baldwin County, AL

Mobile County, AL

Modesto, CA MSA

Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Monroe, LA MSA

Ouachita Parish, LA

Montgomery, AL MSA

Autauga County, AL

Elmore County, AL

Montgomery County, AL

Muncie, IN MSA

Delaware County, IN

Muskegon, MI MSA

Muskegon County, MI

Naples, FL MSA

Collier County, FL

Nashua, NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Nashville, TN MSA

Cheatham County, TN

Davidson County, TN

Dickson County, TN

Robertson County, TN

Rutherford County, TN

Sumner County, TN

Williamson County, TN

Wilson County, TN

Nassau-Suffolk, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

New Bedford, MA MSA

Bristol County, MA (part)

Acushnet town, MA

Dartmouth town, MA

Fairhaven town, MA

Freetown town, MA

New Bedford city, MA

New Bedford, MA MSA—Con.

Plymouth County, MA (part)

Marion town, MA

Mattapoisett town, MA

Rochester town, MA

New Britain, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

New Haven-Meriden, CT MSA

Middlesex County, CT (part)

Clinton town, CT

Killingworth town, CT

New Haven County, CT (part)

Bethany town, CT

Branford town, CT

Cheshire town, CT

East Haven town, CT

Guilford town, CT

Hamden town, CT

Madison town, CT

Meriden city, CT

New Haven city, CT

North Branford town, CT

North Haven town, CT

Orange town, CT

Wallingford town, CT

West Haven city, CT

Woodbridge town, CT

New London-Norwich, CT-RI MSA

New London County, CT (part)

Bozrah town, CT

East Lyme town, CT

Franklin town, CT

Griswold town balance, CT

Groton city, CT

Groton town balance, CT

Jewett City borough, CT

Ledyard town, CT

Lisbon town, CT

Montville town, CT

New London city, CT

North Stonington town, CT

Norwich city, CT

Old Lyme town, CT

Preston town, CT

Salem town, CT

Sprague town, CT

Stonington town, CT

Waterford town, CT

Windham County, CT (part)

Canterbury town, CT

Washington County, RI (part)

Hopkinton town, RI

Westerly town, RI

New Orleans, LA MSA

Jefferson Parish, LA

Orleans Parish, LA

St. Bernard Parish, LA

St. Charles Parish, LA

St. John the Baptist Parish, LA

St. Tammany Parish, LA

New York, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Bergen-Passaic, NJ PMSA

Bergen County, NJ

Passaic County, NJ

Bridgeport-Milford, CT PMSA

Fairfield County, CT (part)

Bridgeport city, CT

Easton town, CT

Fairfield town, CT

Monroe town, CT

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.

Bridgeport-Milford, CT PMSA—Con.

Fairfield County, CT (part)—Con.

Shelton city, CT

Stratford town, CT

Trumbull town, CT

New Haven County, CT (part)

Ansonia city, CT

Beacon Falls town, CT

Derby city, CT

Milford city, CT

Milford town balance, CT

Oxford town, CT

Seymour town, CT

Woodmont borough, CT

Danbury, CT PMSA

Fairfield County, CT (part)

Bethel town, CT

Brookfield town, CT

Danbury city, CT

New Fairfield town, CT

Newtown town, CT

Redding town, CT

Ridgefield town, CT

Sherman town, CT

Litchfield County, CT (part)

Bridgewater town, CT

New Milford town, CT

Jersey City, NJ PMSA

Hudson County, NJ

Middlesex-Somerset-Hunterdon, NJ PMSA

Hunterdon County, NJ

Middlesex County, NJ

Somerset County, NJ

Monmouth-Ocean, NJ PMSA

Monmouth County, NJ

Ocean County, NJ

Nassau-Suffolk, NY PMSA

Nassau County, NY

Suffolk County, NY

New York, NY PMSA

Bronx County, NY

Kings County, NY

New York County, NY

Putnam County, NY

Queens County, NY

Richmond County, NY

Rockland County, NY

Westchester County, NY

Newark, NJ PMSA

Essex County, NJ

Morris County, NJ

Sussex County, NJ

Union County, NJ

Norwalk, CT PMSA

Fairfield County, CT (part)

Norwalk city, CT

Weston town, CT

Westport town, CT

Wilton town, CT

Orange County, NY PMSA

Orange County, NY

Stamford, CT PMSA

Fairfield County, CT (part)

Darien town, CT

Greenwich town, CT

New Canaan town, CT

Stamford city, CT

Newark, NJ PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Niagara Falls, NY PMSA—see **Buffalo-Niagara Falls, NY CMSA**

Norfolk-Virginia Beach-Newport News, VA MSA

- Gloucester County, VA
- James City County, VA
- York County, VA
- Chesapeake city, VA
- Hampton city, VA
- Newport News city, VA
- Norfolk city, VA
- Poquoson city, VA
- Portsmouth city, VA
- Suffolk city, VA
- Virginia Beach city, VA
- Williamsburg city, VA

Norwalk, CT PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Oakland, CA PMSA—see **San Francisco-Oakland-San Jose, CA CMSA**

Ocala, FL MSA

- Marion County, FL

Odessa, TX MSA

- Ector County, TX

Oklahoma City, OK MSA

- Canadian County, OK
- Cleveland County, OK
- Logan County, OK
- McClain County, OK
- Oklahoma County, OK
- Pottawatomie County, OK

Olympia, WA MSA

- Thurston County, WA

Omaha, NE-IA MSA

- Pottawattamie County, IA
- Douglas County, NE
- Sarpy County, NE
- Washington County, NE

Orange County, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Orlando, FL MSA

- Orange County, FL
- Osceola County, FL
- Seminole County, FL

Owensboro, KY MSA

- Daviess County, KY

Oxnard-Ventura, CA PMSA—see **Los Angeles-Anaheim-Riverside, CA CMSA**

Panama City, FL MSA

- Bay County, FL

Parkersburg-Marietta, WV-OH MSA

- Washington County, OH
- Wood County, WV

Pascagoula, MS MSA

- Jackson County, MS

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—see **Providence-Pawtucket-Fall River, RI-MA CMSA**

Pensacola, FL MSA

- Escambia County, FL
- Santa Rosa County, FL

Peoria, IL MSA

- Peoria County, IL
- Tazewell County, IL
- Woodford County, IL

Philadelphia, PA-NJ PMSA—see **Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**

Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

- Philadelphia, PA-NJ PMSA
- Burlington County, NJ
- Camden County, NJ
- Gloucester County, NJ
- Bucks County, PA
- Chester County, PA
- Delaware County, PA
- Montgomery County, PA
- Philadelphia County, PA
- Trenton, NJ PMSA
- Mercer County, NJ
- Vineland-Millville-Bridgeton, NJ PMSA
- Cumberland County, NJ
- Wilmington, DE-NJ-MD PMSA
- New Castle County, DE
- Cecil County, MD
- Salem County, NJ

Phoenix, AZ MSA

- Maricopa County, AZ

Pine Bluff, AR MSA

- Jefferson County, AR

Pittsburgh, PA PMSA—see **Pittsburgh-Beaver Valley, PA CMSA**

Pittsburgh-Beaver Valley, PA CMSA

- Beaver County, PA PMSA
- Beaver County, PA
- Pittsburgh, PA PMSA
- Allegheny County, PA
- Fayette County, PA
- Washington County, PA
- Westmoreland County, PA

Pittsfield, MA MSA

- Berkshire County, MA (part)
- Cheshire town, MA
- Dalton town, MA
- Hinsdale town, MA
- Lanesborough town, MA
- Lee town, MA
- Lenox town, MA
- Pittsfield city, MA
- Richmond town, MA
- Stockbridge town, MA

Portland, ME MSA

- Cumberland County, ME (part)
- Cape Elizabeth town, ME
- Cumberland town, ME
- Falmouth town, ME
- Freeport town, ME
- Gorham town, ME
- Gray town, ME
- North Yarmouth town, ME
- Portland city, ME
- Raymond town, ME
- Scarborough town, ME
- South Portland city, ME
- Standish town, ME
- Westbrook city, ME
- Windham town, ME
- Yarmouth town, ME
- York County, ME (part)
- Buxton town, ME
- Hollis town, ME
- Old Orchard Beach town, ME

Portland, OR PMSA—see **Portland-Vancouver, OR-WA CMSA**

Portland-Vancouver, OR-WA CMSA

- Portland, OR PMSA
- Clackamas County, OR
- Multnomah County, OR
- Washington County, OR
- Yamhill County, OR
- Vancouver, WA PMSA
- Clark County, WA

Portsmouth-Dover-Rochester, NH-ME MSA

- York County, ME (part)
- Berwick town, ME
- Eliot town, ME
- Kittery town, ME
- North Berwick town, ME
- Ogunquit town, ME
- South Berwick town, ME
- Wells town, ME
- York town, ME
- Rockingham County, NH (part)
- Exeter town, NH
- Greenland town, NH
- Hampton town, NH
- New Castle town, NH
- Newfields town, NH
- Newington town, NH
- Newmarket town, NH
- North Hampton town, NH
- Portsmouth city, NH
- Rye town, NH
- Stratham town, NH
- Strafford County, NH (part)
- Barrington town, NH
- Dover city, NH
- Durham town, NH
- Farmington town, NH
- Lee town, NH
- Madbury town, NH
- Milton town, NH
- Rochester city, NH
- Rollinsford town, NH
- Somersworth city, NH

Poughkeepsie, NY MSA

- Dutchess County, NY

Providence, RI PMSA—see **Providence-Pawtucket-Fall River, RI-MA CMSA**

Providence-Pawtucket-Fall River, RI-MA CMSA

- Fall River, MA-RI PMSA
- Bristol County, MA (part)
- Fall River city, MA
- Somerset town, MA
- Swansea town, MA
- Westport town, MA
- Newport County, RI (part)
- Little Compton town, RI
- Tiverton town, RI

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA

- Bristol County, MA (part)
- Attleboro city, MA
- North Attleborough town, MA
- Rehoboth town, MA
- Seekonk town, MA
- Norfolk County, MA (part)
- Plainville town, MA
- Worcester County, MA (part)
- Blackstone town, MA
- Millville town, MA

Providence County, RI (part)

- Burrillville town, RI
- Central Falls city, RI
- Cumberland town, RI
- Lincoln town, RI

Providence-Pawtucket-Fall River, RI-MA CMSA—Con.
 Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—Con.
 Providence County, RI (part)—Con.
 North Smithfield town, RI
 Pawtucket city, RI
 Smithfield town, RI
 Woonsocket city, RI

Providence, RI PMSA
 Bristol County, RI (part)
 Barrington town, RI
 Bristol town, RI
 Warren town, RI

Kent County, RI (part)
 Coventry town, RI
 East Greenwich town, RI
 Warwick city, RI
 West Warwick town, RI

Newport County, RI (part)
 Jamestown town, RI

Providence County, RI (part)
 Cranston city, RI
 East Providence city, RI
 Foster town, RI
 Gloucester town, RI
 Johnston town, RI
 North Providence town, RI
 Providence city, RI
 Scituate town, RI

Washington County, RI (part)
 Exeter town, RI
 Narragansett town, RI
 North Kingstown town, RI
 Richmond town, RI
 South Kingstown town, RI

Provo-Orem, UT MSA
 Utah County, UT

Pueblo, CO MSA
 Pueblo County, CO

Racine, WI PMSA—see Milwaukee-Racine, WI CMSA

Raleigh-Durham, NC MSA
 Durham County, NC
 Franklin County, NC
 Orange County, NC
 Wake County, NC

Rapid City, SD MSA
 Pennington County, SD

Reading, PA MSA
 Berks County, PA

Redding, CA MSA
 Shasta County, CA

Reno, NV MSA
 Washoe County, NV

Richland-Kennewick-Pasco, WA MSA
 Benton County, WA
 Franklin County, WA

Richmond-Petersburg, VA MSA
 Charles City County, VA
 Chesterfield County, VA
 Dinwiddie County, VA
 Goochland County, VA
 Hanover County, VA
 Henrico County, VA
 New Kent County, VA
 Powhatan County, VA
 Prince George County, VA
 Colonial Heights city, VA
 Hopewell city, VA
 Petersburg city, VA
 Richmond city, VA

Riverside-San Bernardino, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Roanoke, VA MSA
 Botetourt County, VA
 Roanoke County, VA
 Roanoke city, VA
 Salem city, VA

Rochester, MN MSA
 Olmsted County, MN

Rochester, NY MSA
 Livingston County, NY
 Monroe County, NY
 Ontario County, NY
 Orleans County, NY
 Wayne County, NY

Rockford, IL MSA
 Boone County, IL
 Winnebago County, IL

Sacramento, CA MSA
 El Dorado County, CA
 Placer County, CA
 Sacramento County, CA
 Yolo County, CA

Saginaw-Bay City-Midland, MI MSA
 Bay County, MI
 Midland County, MI
 Saginaw County, MI

St. Cloud, MN MSA
 Benton County, MN
 Sherburne County, MN
 Stearns County, MN

St. Joseph, MO MSA
 Buchanan County, MO

St. Louis, MO-IL MSA
 Clinton County, IL
 Jersey County, IL
 Madison County, IL
 Monroe County, IL
 St. Clair County, IL
 Franklin County, MO
 Jefferson County, MO
 St. Charles County, MO
 St. Louis County, MO
 St. Louis city, MO

Salem, OR MSA
 Marion County, OR
 Polk County, OR

Salem-Gloucester, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Salinas-Seaside-Monterey, CA MSA
 Monterey County, CA

Salt Lake City-Ogden, UT MSA
 Davis County, UT
 Salt Lake County, UT
 Weber County, UT

San Angelo, TX MSA
 Tom Green County, TX

San Antonio, TX MSA
 Bexar County, TX
 Comal County, TX
 Guadalupe County, TX

San Diego, CA MSA
 San Diego County, CA

San Francisco, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

San Francisco-Oakland-San Jose, CA CMSA
 Oakland, CA PMSA
 Alameda County, CA
 Contra Costa County, CA

San Francisco-Oakland-San Jose, CA CMSA—Con.
 San Francisco, CA PMSA
 Marin County, CA
 San Francisco County, CA
 San Mateo County, CA
 San Jose, CA PMSA
 Santa Clara County, CA
 Santa Cruz, CA PMSA
 Santa Cruz County, CA
 Santa Rosa-Petaluma, CA PMSA
 Sonoma County, CA
 Vallejo-Fairfield-Napa, CA PMSA
 Napa County, CA
 Solano County, CA

San Jose, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Barbara-Santa Maria-Lompoc, CA MSA
 Santa Barbara County, CA

Santa Cruz, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Fe, NM MSA
 Los Alamos County, NM
 Santa Fe County, NM

Santa Rosa-Petaluma, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Sarasota, FL MSA
 Sarasota County, FL

Savannah, GA MSA
 Chatham County, GA
 Effingham County, GA

Scranton-Wilkes-Barre, PA MSA
 Columbia County, PA
 Lackawanna County, PA
 Luzerne County, PA
 Monroe County, PA
 Wyoming County, PA

Seattle, WA PMSA—see Seattle-Tacoma, WA CMSA

Seattle-Tacoma, WA CMSA
 Seattle, WA PMSA
 King County, WA
 Snohomish County, WA
 Tacoma, WA PMSA
 Pierce County, WA

Sharon, PA MSA
 Mercer County, PA

Sheboygan, WI MSA
 Sheboygan County, WI

Sherman-Denison, TX MSA
 Grayson County, TX

Shreveport, LA MSA
 Bossier Parish, LA
 Caddo Parish, LA

Sioux City, IA-NE MSA
 Woodbury County, IA
 Dakota County, NE

Sioux Falls, SD MSA
 Minnehaha County, SD

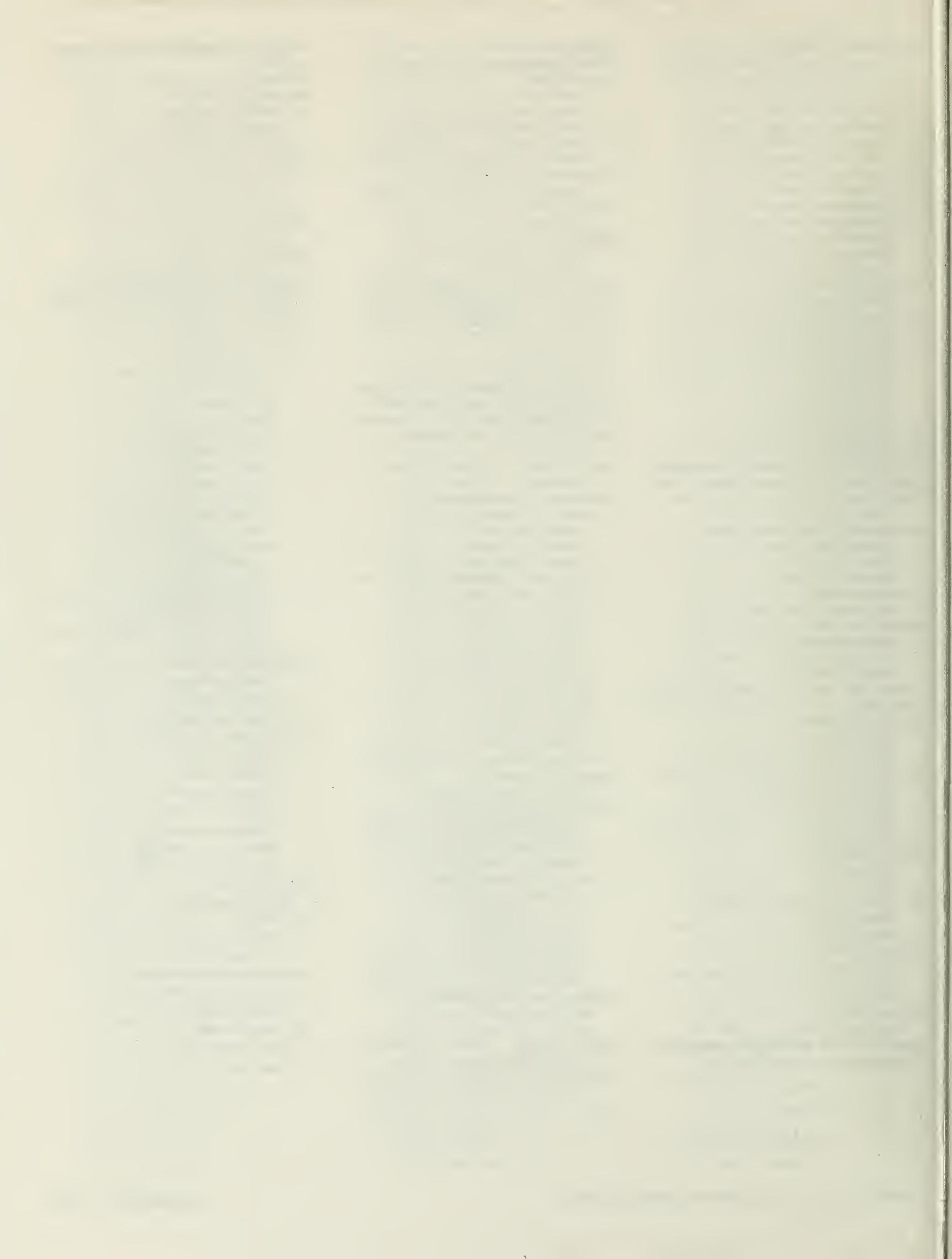
South Bend-Mishawaka, IN MSA
 St. Joseph County, IN

Spokane, WA MSA
 Spokane County, WA

Springfield, IL MSA
 Menard County, IL
 Sangamon County, IL

Springfield, MO MSA
 Christian County, MO
 Greene County, MO

Springfield, MA MSA	Tucson, AZ MSA	West Palm Beach-Boca Raton-Delray Beach, FL MSA
Hampden County, MA (part)	Pima County, AZ	Palm Beach County, FL
Agawam town, MA	Creek County, OK	Wheeling, WV-OH MSA
Chicopee city, MA	Osage County, OK	Belmont County, OH
East Longmeadow town, MA	Rogers County, OK	Marshall County, WV
Hampden town, MA	Tulsa County, OK	Ohio County, WV
Holyoke city, MA	Wagoner County, OK	Wichita, KS MSA
Longmeadow town, MA		Butler County, KS
Ludlow town, MA		Harvey County, KS
Monson town, MA		Sedgwick County, KS
Montgomery town, MA		Wichita Falls, TX MSA
Palmer town, MA		Wichita County, TX
Russell town, MA		Williamsport, PA MSA
Southwick town, MA		Lycoming County, PA
Springfield city, MA		Wilmington, DE-NJ-MD PMSA —see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA
Westfield city, MA		Wilmington, NC MSA
West Springfield town, MA		New Hanover County, NC
Wilbraham town, MA		Worcester, MA MSA
Hampshire County, MA (part)		Worcester County, MA (part)
Belchertown town, MA		Auburn town, MA
Easthampton town, MA		Barre town, MA
Granby town, MA		Boylston town, MA
Huntington town, MA		Brookfield town, MA
Northampton city, MA		Charlton town, MA
Southampton town, MA		Clinton town, MA
South Hadley town, MA		Douglas town, MA
Stamford, CT PMSA —see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA		Dudley town, MA
State College, PA MSA		East Brookfield town, MA
Centre County, PA		Grafton town, MA
Steubenville-Weirton, OH-WV MSA		Holden town, MA
Jefferson County, OH		Leicester town, MA
Brooke County, WV		Millbury town, MA
Hancock County, WV		Northborough town, MA
Stockton, CA MSA		Northbridge town, MA
San Joaquin County, CA		North Brookfield town, MA
Syracuse, NY MSA		Oxford town, MA
Madison County, NY		Paxton town, MA
Onondaga County, NY		Princeton town, MA
Oswego County, NY		Rutland town, MA
Tacoma, WA PMSA —see Seattle-Tacoma, WA CMSA		Shrewsbury town, MA
Tallahassee, FL MSA		Spencer town, MA
Gadsden County, FL		Sterling town, MA
Leon County, FL		Sutton town, MA
Tampa-St. Petersburg-Clearwater, FL MSA		Uxbridge town, MA
Hernando County, FL		Webster town, MA
Hillsborough County, FL		Westborough town, MA
Pasco County, FL		West Boylston town, MA
Pinellas County, FL		Worcester city, MA
Terre Haute, IN MSA		Yakima, WA MSA
Clay County, IN		Yakima County, WA
Vigo County, IN		York, PA MSA
Texarkana, TX-Texarkana, AR MSA		Adams County, PA
Miller County, AR		York County, PA
Bowie County, TX		Youngstown-Warren, OH MSA
Toledo, OH MSA		Mahoning County, OH
Fulton County, OH		Trumbull County, OH
Lucas County, OH		Yuba City, CA MSA
Wood County, OH		Sutter County, CA
Topeka, KS MSA		Yuba County, CA
Shawnee County, KS		
Trenton, NJ PMSA —see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA		

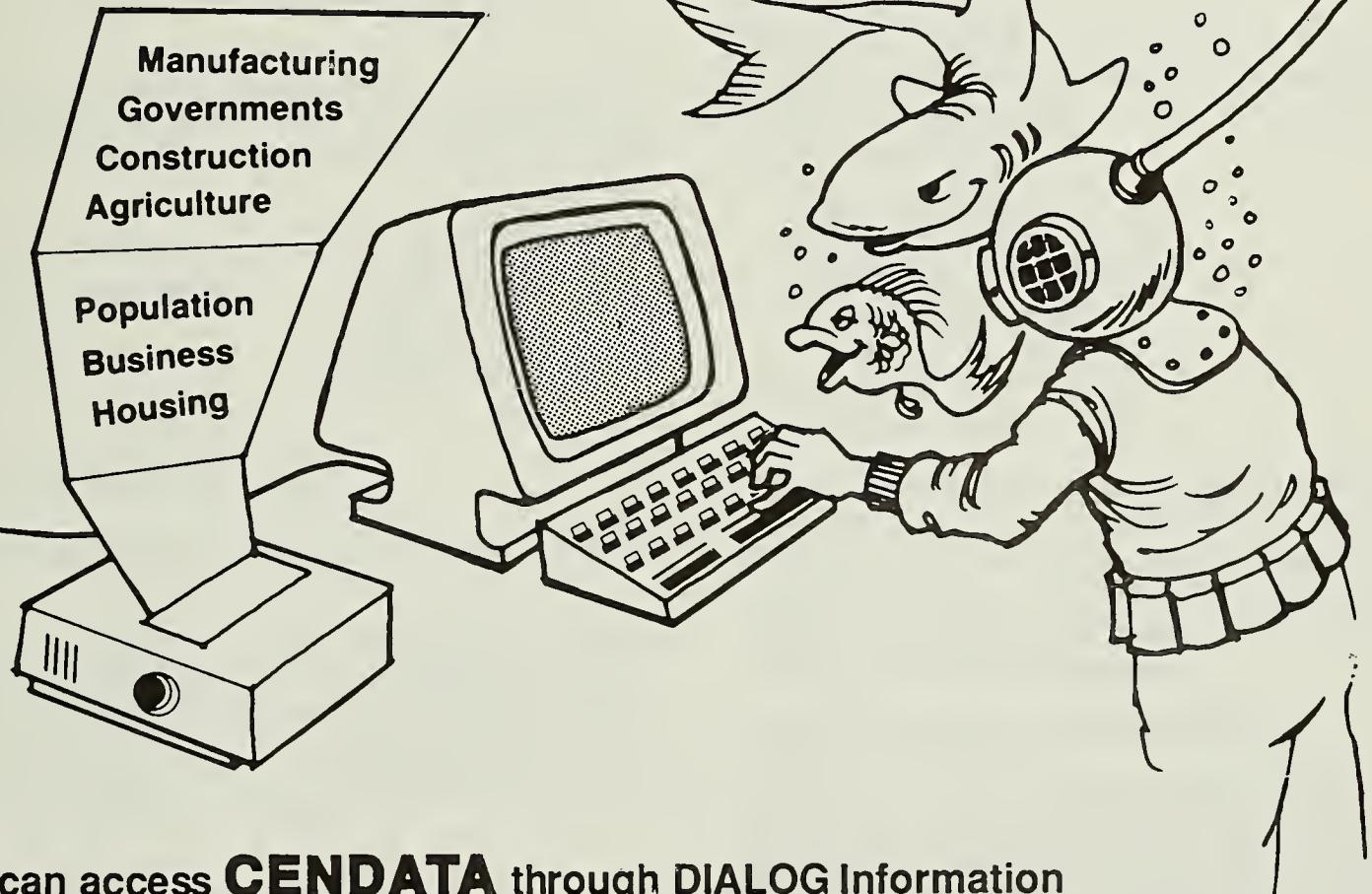


WHAT'S YOUR LINE?

It's ONLINE!

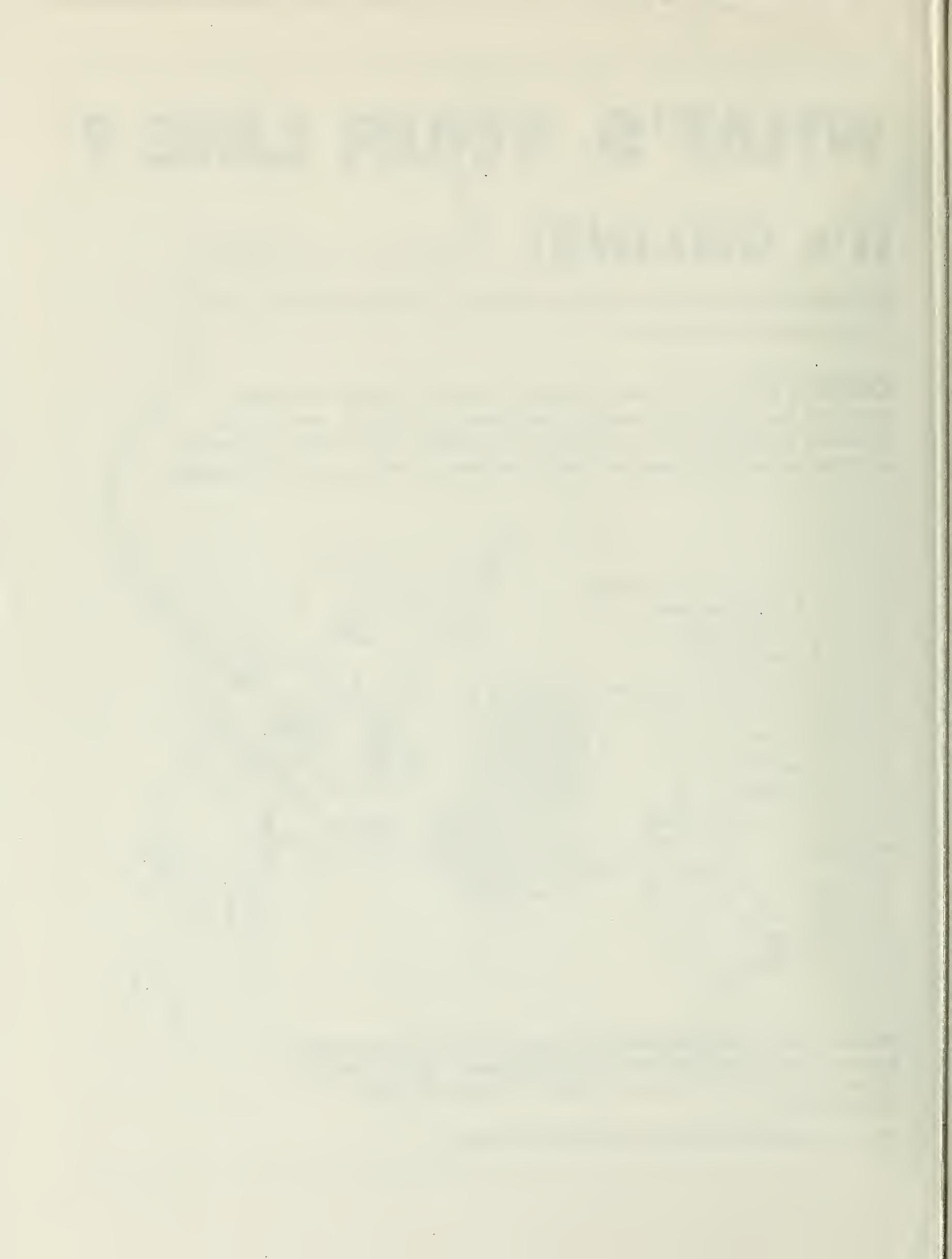
NOW whatever you do, wherever you go, we've got data for you.
In more depth than ever—

CENDATA™—the Census Bureau's online system—instantly provides the facts you need for decisions in virtually every area. It covers everything from ingots to elections, from rental vacancies to retail sales, from median family income to milk cows in Minnesota.



You can access **CENDATA** through DIALOG Information Services, Inc. (800) 334-2564 or CompuServe (800) 848-8199. Or call the Census Bureau on (301) 763-2074 for more information.

Now key statistics are just a phone call away.



PUBLICATION PROGRAM

1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

- Printed reports [P]
- CD-ROM [C]
- Computer tape [T]
- Highlights online [+]

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
- Number of employees
- Payroll
- Hours worked
- Value of construction work done, by type of structure
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUSES REPORTS

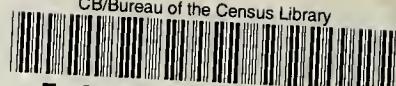
The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.



5 0673 01037709 4